

Critical Release Notice

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The content of this customer NTP supports the
SN06 (DMS) software release.

Bookmarks used in this NTP highlight the changes between the NA015 baseline and the current release. The bookmarks provided are color-coded to identify release-specific content changes. NTP volumes that do not contain bookmarks indicate that the NA015 baseline remains unchanged and is valid for the current release.

Bookmark Color Legend

Black: Applies to content for the NA015 baseline that is valid through the current release.

Red: Applies to new or modified content for NA017 that is valid through the current release.

Blue: Applies to new or modified content for NA018 (SN05 DMS) that is valid through the current release.

Green: Applies to new or modified content for SN06 (DMS) that is valid through the current release.

Attention!

Adobe® Acrobat® Reader™ 5.0 is required to view bookmarks in color.

Publication History

September 2003

Standard release 07.02 for software release SN06 (DMS). Updates made in the Commands Interface Manual are shown below.

Modified command TRAVER.
Modified chapter introduction PROGDIR
Modified command AINTRACE
Modified chapter introduction DNSCRN
New command FINDATTRS
Modified command QGRP
New command FLEXTAB
New directory SWAPPTCI

June 2003

Preliminary release 07.01 for software release SN06 (DMS). Updates made in the Commands Interface Manual are shown below.

C7ULINK level, modified commands as follows:

build, display, monitor, intercept, match, mask, dump, QueryPC, QueryUsr

New directory DPTLTP with new commands as follows:

DISPLAY, FIND

New directory DPTTRM with new commands as follows:

Disp, Post, Bsy set, Rts set, Frls set

New directory FPSDIR with new commands as follows:

QFPS, RFPS, LFPS

New directory LFPSDIR with new commands as follows:

QFPS, LOAD, CHG_PSW

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DMS-100 Family

Command Interface

Reference Manual

TL15 Standard 04.02 May 2001

DMS-100 Family
Command Interface
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Publication history

August 2000

Standard 03.01 released for TL14. Added directories and commands:

- c7router directory with commands:
 - bsy
- c7rteset directory with commands:
 - bsy
 - offl
 - queryflt
 - rts
 - transl
- Under the progdir directory, command:
 - objmgrci

April 2000

Standard 02.02. Fourth release of this document for TL13 (CSP13).

March 2000

Standard 02.01. Third release of this document for TL13 (CSP13).

August 1999

Standard 01.02. Second release of this document for TL12 (CSP12).

August 1999

Standard 01.01. First release of this document for TL12 (CSP12).

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Appendix A Command/directory cross-reference A-1

Appendix B Command/directory and command/MAP level cross-reference B-1

About this document

When to use this document

This document is a reference manual that describes all new and changed commands generated for TL12-based and future software releases. Operating company personnel use these commands at the MAP (maintenance and administration position) terminal in a DMS-100 switch. MAP levels contain menu listed and menu unlisted commands. Directories contain non-menu commands.

This document contains examples of HELP commands for use in the menu and non-menu environments. The HELP commands show the user how to find command syntax information at the MAP terminal.

How to check the version and issue of this document

Numbers indicate the version and issue of the document. An example is 01.01.

The first two digits indicate the version. The version number increases for each document update that supports a new software release. For example, the first release of a document is 01.01. In the next software release cycle, the first release of the same document is 02.01.

The second two digits indicate the issue. The issue number increases for each document revision and release in the same software release cycle. For example, the second release of a document in the first software release cycle is 01.02.

You can determine the version of this document for the software release in your office. You can also determine the organization of the documentation for your product. The release information in Product Documentation Directory, 297-8991-001, contains this information.

References in this document

This document refers to the following documents:

- Glossary of Terms and Abbreviations, 297-1001-825
- DMS-100 Family Commands Reference Manual, 297-1001-822

What menu listed, menu unlisted, and non-menu commands are

The commands used at a MAP terminal are menu listed, menu unlisted, and non-menu:

- Menu listed commands associate with a MAP display. The MAP display contains a numbered list or menu of commands and parameters when you access the level or sublevel. To access the menu commands, you can type the command name or the number to the left of the command. The level from which you enter a menu listed command is the menu or menu level.

Note 1: Menus do not always appear when you access a menu level or sublevel. For example, menus do not always appear when the `mapci nodisp` command suppresses the display.

Note 2: To display all the commands (menu listed, menu unlisted, and non-menu) available at the current directory or MAP level, enter the `listst` command. The list includes the following types of commands:

- perform tasks
- access other directories or MAP levels
- appear on the menu
- do not appear on the menu

>**listst**

- Menu unlisted commands also associate with a MAP display. You can execute menu unlisted commands from an accessed menu but these commands are not visible to the user in a MAP menu.
- Non-menu commands do not associate with a MAP display, even when you access the commands from a level or sub-level. The level from which you enter a non-menu command is a directory or directory level.

Note: To display a list of all the menu unlisted and non-menu commands available in the directory level that you accessed, enter the `print` command with the name of the directory.

>**print** <directory_name>

Organization of this manual

The organizational design of this manual allows the user to gain quick access to comprehensive command information.

This manual provides two appendices:

- Appendix A contains of a commands reference table that includes only commands already documented in this manual. The table allows the user

to identify the directory or MAP level of any command and identify the location of the command in this manual.

- Appendix B contains of a commands reference table that includes all the commands documented in the *DMS-100 Family Commands Reference Manual*, 297-1001-822. This table includes commands that were not documented in this manual for TL12-based and future releases.

Chapter organization

Each chapter documents one directory (for non-menu commands) or MAP level (for menu commands), followed by the commands in that particular directory or MAP level. The names of the directory sections are the same as the names of the directories or MAP levels which they document. The directory sections, as well as the command sections within them, are grouped alphabetically.

Organization of a directory or MAP level section

A directory or MAP level section contains the following, in the order listed:

- a description of the directory
- instructions on how to access the directory
- instructions on how to return to the command interpreter (CI) level
- MAP level sections include an example of a MAP display

Organization of a command section

A command section contains the following, in the order listed:

- command type
- command target
- description of the command
- limitations and restrictions
- command syntax, followed by a table that lists the descriptions of the command parameters and variables
- table showing a command example
- table showing command responses

Command conventions

The following section describes the command conventions used in this manual.

Command syntax

The command syntax is a precise duplication of the format viewed by the user at the MAP terminal. For the command syntax, type one of the following commands at the prompt in the directory or MAP level of the command:

- **>help <command_name>**
- **>h <command_name>**

The following is an example of command syntax for the cntrs command:

```
cntrs      <Plane number>  
           <Display what> {CARD <Card Number>,  
                           ALL,  
                           PROC}
```

Note: The text string <...what> indicates the function of the command, is not considered a variable name, and is not part of the command syntax. Do not enter a value to replace this text string.

The command syntax is as follows:

- **< >** indicates that you must enter a value to replace the variable name
- **{ }** indicates that you must enter one of the parameters or variables within the brackets
- **[]** indicates that the parameter or variable within the brackets is optional

Note: <...what> indicates the function of the command and is not considered a variable name. Do not enter a value to replace this text string.

Order of elements

When an element directly precedes another element (parameter or variable) horizontally, if you select the first element, you must enter the second element.

Command words

The actual command word appears in lowercase letters. The command appears to the left of all other elements in the command syntax. Enter the command as shown in the command syntax.

Parameter names

Constant parameters appear in uppercase letters, unless the format viewed at the MAP terminal shows otherwise. Enter the parameter as shown in the command syntax.

Variable names

Variable names appear in mixed case letters, unless the format viewed at the MAP terminal shows otherwise. Do not enter the variable as shown. You must

enter the applicable value from the value column in the table of command parameter and variables.

Command input

Command input appears in boldface letters preceded by a prompt symbol. The following is an example of command input:

```
>cntrs CARD 0 all
```

Hierarchy

The order in which elements must be entered is represented by their order of appearance from left to right.

When several elements appear in the same horizontal position (that is, in a vertical list), you must select one of them for that position, except when there is a default.

Defaults

In a vertical list, if an element is required, but not entered, the system must act as if an element was entered. The action the system takes when you do not enter an element is called a default action. This action is usually indicated by one of the elements that can be selected. Occasionally, the default action is something other than a selectable action. These non-selectable defaults are represented by the word, “default,” or by another word that indicates the word cannot be entered. The default is identified and fully described in the parameter and variable descriptions section.

Description of elements

The table of command parameters and variables contains a list of every element that applies to that command. The elements are listed in the order that they appear in the syntax (horizontally and vertically). Each of these command elements has a full description, including replacement values and ranges for variables.

In the parameter and variable descriptions table, the replacement values and ranges for variables are represented in the “Value” column. The value ranges are numeric, alphabetic, or alphanumeric.

Constant parameters are parameter names that do not vary. You enter the parameter name as it appears at the MAP terminal. These constant parameters are specified as N/A in the “Value” column of the table.

An example of the descriptions of the parameters and variables follows:

Table 1 Command parameters and variables

Parameters and variables	Value	Description
Plane number	0 or 1	This variable is the number of the central processing unit (CPU) plane.
Display what	N/A	This text string is not user input.
CARD	N/A	This parameter directs the system to display the error count for one card only.
Card Number	1 to 10	This variable is the number of the card to be displayed.
ALL	N/A	This parameter displays ECC error counts for all of the cards on the specified plane. This includes the processor ECC error counts.
PROC	N/A	This parameter displays ECC error counts for the memory of the processor card only.

Command examples

One example of a command is shown in the Command example section. For commands with numerous elements, a complex example is shown. All of the elements in a command example appear in boldface.

The following example shows the **cntrs** command input with parameters and variables. The input is followed by the description of the task, the MAP response, and an explanation of the MAP response.

Table 2 Command example

Command:	>cntrs 0 all
Description of task:	Display all transient error counters for the plane.
MAP response:	<pre> CM 1 CPU PLANE 1 1 CARD 1 2 3 4 5 6 7 8 9 0 ERR CNTS 0 0 0 0 0 0 0 0 0 0 </pre>
Explanation:	There are no transient error counters for plane 0.

Command responses

This section contains MAP responses that the command generates. These responses include prompts, status messages, instructions to the user, and error or failure messages. For commands that generate numerous system responses,

the responses that are unique or require further system or user actions are identified. Responses are represented in Courier font.

Other command conventions

The command convention used in this reference manual is different from the conventions used in some older Nortel Networks documents. In older documents, the intention was to make a clear distinction between the command syntax and the command information viewed at a MAP terminal. However, in this document, the representation of the command syntax is similar to the command information documented on a MAP terminal. The use of one command convention aims to simplify explanations of command syntax and to eliminate possible confusion. For example, the user does not have to translate the command convention used in this document to understand what the user sees at the MAP terminal.

1 CI global level commands

This chapter provides an overview of the CI global level commands. Access the commands described here directly from the Command Interface level. This chapter also provides detailed information on new or changed commands in the CI global level.

The following table alphabetically lists the commands available at the Command Interface level.

Table 1-1

Command
billcomp
listab
mtrcount
mtrver
trk_tot

How to access the CI global level

You are at the CI level

How to return to the CI

You are at the CI level.

BILLCOMP

Type

The BillComp command is a nonmenu command.

Target

The command target for the BillComp command is SuperNode.

Description

The BillComp command allows the user to compare two billing files on disk. The system displays the result on the screen or saves it to tape. The result includes:

- an effective billing count calculated from date and time information contained in the billing file names
- DNs with critical billing counts
- added and deleted DNs

For results saved to tape, the output file name has the format

RyymmddhhmmssXXX

where yymmdd is the date (year, month, day)

hhmmss is the time (hour, minute, second)

XXX is the class of comparison (ADD = added DNs,

DEL = deleted DNs, CRI = DNs with critical values, ALL = all DNs)

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP14

Feature 59017089 (Billing Files Comparison) introduced the BillComp command to the MMP market.

INT44

Feature TA0014 (Billing Files Comparison) introduced the BillComp command.

BILLCOMP (continued)**Limitations and restrictions**

The following limits and restrictions apply to the BillComp command:

- The files to be compared must be closed line billing files. If the command specifies a file which is not a line billing file, the system displays a warning message and no comparison takes place.
- The tape to hold the result must be DAT or MTD tape. If the command includes the SAVE option, the system checks the specified device and displays a warning message if the tape format is anything other than DAT or MTD.

Syntax

The BillComp command syntax is as follows:

```
billcomp <fn1> with <fn2> save <tn> <class> <lowDN> <highDN>
```

The following table describes the parameters and variables of the BillComp command.

Command parameter and variable descriptions (Sheet 1 of 2)

Parameters and variables	Value	Description
fn1	Alphanumeric, maximum 16 characters	First file name. If the BillComp command specifies only one file name, the system compares that billing file with the latest closed billing file. This parameter is mandatory.
with		Optional parameter to specify a second file.
fn2	Alphanumeric, maximum 16 characters	Second file name. The system compares the two billing files specified. This parameter is mandatory if the parameter 'with' is used. Note: The two files specified in the BillComp command can be in either order. The system determines which is the first and second file from the date and time information contained in the file names.
save		Optional parameter to specify tape for storage of the result.
tn	Alphanumeric, maximum 16 characters	Tape number. This parameter is mandatory if the parameter 'save' is used.

BILLCOMP (continued)

Command parameter and variable descriptions (Sheet 2 of 2)

Parameters and variables	Value	Description
class	ADDDN, DELDN, CRITICAL	Class option. This parameter is optional. The class option determines the contents of the BillComp output, as follows: • ADDDN - added DNs only • DELDN - deleted DNs only • CRITICAL - DNs with critical counts
lowDN	Numeric, 8 digits	Lower DN for comparison between two DNs. This parameter is optional.
highDN	Numeric, 8 digits	Higher DN for comparison between two DNs. This parameter is mandatory if the parameter 'lowDN' is used.

Example

The following table provides an example of the BillComp command.

Command example

Command:	>BILLCOMP R990428133044BIL
Description of task:	Compare a file with the latest file on disk.
MAP response:	See the following figure.
Explanation:	The command compares file R990428133044BIL with the latest file on disk (R990430152549BIL) and displays the result on the screen.

The following figure shows the MAP response from the example BillComp command.

BILLCOMP (continued)

```
FIRST FILE: R990428133044BIL
SECOND FILE: R990430152549BIL
DATE DIFF= 00:00:02 TIME DIFF= 01:55
EFFECTIVE CRITICAL COUNT IS: 000000001500
BILLING FILE COMPARISON: DELETED DNS
      DN      METERNAME      COUNT WRAP
-----
RECORD NUMBER: 500
RECORD NUMBER: 1000
....
RECORD NUMBER: 4500
NO DATA FOUND FOR: DELETED DNS
BILLING FILE COMPARISON: NEW ADDED DNS
      DN      METERNAME      COUNT WRAP
-----
42700004 SUBSMET      000000000068 NO
RECORD NUMBER: 500
42700670 SUBSMET      000000000019 NO
42700671 SUBSMET      0000000000103 NO
42700672 SUBSMET      000000000035 NO
RECORD NUMBER: 1000
....
RECORD NUMBER: 4500
BILLING FILE COMPARISON: FOR CRITICAL VALUES
DN METERNAME 1ST_COUNT WRAP 2ND_COUNT WRAP DIFF. WRAP
-----
42700002 SUBSMET 0000000000350 NO 0000000002300 NO 0000000001900 NO
RECORD NUMBER: 500
42700658 SUBSMET 0000000000158 NO 0000000001870 NO 0000000001712 NO
RECORD NUMBER: 1000
....
RECORD NUMBER: 4500
```

Responses

The following table explains possible responses to the BILLCOMP command.

MAP responses with associated meanings and actions (Sheet 1 of 3)

Command:	>BILLCOMP R990428133044BIL
MAP response:	FILE NOT ON DISK
Meaning:	The file specified is not found.
Actions:	If necessary, list the contents of the disk to check the file name. Repeat the BillComp command using the correct file name.
Command:	>BILLCOMP R990428133044BIL
MAP response:	GIVEN FILE IS THE LATEST FILE ON DISK
Meaning:	When the BillComp command specifies only one file, the system compares this with the latest file. If the command itself specifies the latest file, the system does not have two files to compare.
Actions:	Repeat the BillComp command using a file other than the latest one.

BILLCOMP (continued)

MAP responses with associated meanings and actions (Sheet 2 of 3)

Command:	>BILLCOMP R990428133044BIL SAVE R990428133045BIL
MAP response:	OUTPUT CAN BE SAVED ONLY ON DAT or MTD TAPE
Meaning:	The SAVE option specifies a device other than DAT or MTD tape.
Actions:	Repeat the BillComp command specifying a DAT tape or MTD tape.
Command:	>BILLCOMP R990428133044BIL 42700670
MAP response:	LOW AND HIGH LIMITS ARE REQUIRED TOGETHER
Meaning:	The BillComp command specifies only one DN.
Actions:	Repeat the BillComp command specifying two DNs.
Command:	>BILLCOMP R990428133044BIL 42700670 42700660
MAP response:	LOWER DN SHOULD BE LESS THAN HIGHER DN
Meaning:	The BillComp command specifies a second DN lower than the first DN.
Actions:	Repeat the BillComp command specifying a second DN higher than the first DN.
Command:	>BILLCOMP R990428133044BIL
MAP response:	EMPTY FILE: <file name>
Meaning:	The BillComp command specifies an empty file. The system displays this warning if any of the files specified are empty.
Actions:	Repeat the BillComp command specifying a non-empty file.
Command:	>BILLCOMP R990428133044BIL 42700670
MAP response:	WRONG FILE NAME: <file name>
Meaning:	The BillComp command specifies a file with a name that is not in billing file name format.
Actions:	Repeat the BillComp command using a file name in the correct format.
Command:	>BILLCOMP R990428133044BIL 427006700
MAP response:	DN OUT OF RANGE: <DN>
Meaning:	The BillComp command specifies a DN with too many digits.
Actions:	Check the DN. Repeat the BillComp command specifying an 8-digit DN.

BILLCOMP (end)

MAP responses with associated meanings and actions (Sheet 3 of 3)

Command:	>BILLCOMP R990428133044BIL 42700670X
MAP response:	INVALID DN: <DN>
Meaning:	The BillComp command specifies a DN containing non-numeric characters.
Actions:	Repeat the BillComp command specifying an 8-digit DN.
Command:	>BILLCOMP R990428133044BIL
MAP response:	<file name> MAY BE CORRUPT OR TRUNK METER FILE
Meaning:	The BillComp command specifies a file that is not a line billing file.
Actions:	Repeat the BillComp command specifying a line billing file.

listab

Type

The listab command is a menu unlisted command.

Target

The command target for the listab command is ALL.

Description

The listab command displays the statistics for each of the listab pools. The listab pools are numbered 0 to 13, where 0 is the default listab pool, and pools 1 to 13 are used specifically for the OVRx routing tables.

The statistics displayed for each listab pool are:

- the number of listabs in use
- the number of listabs available

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

Feature 59023454, Translation and Routing Expansion, introduced the listab command.

Limitations and restrictions

The listab command has no limits or restrictions.

Syntax

The listab command syntax is as follows:

```
listab
```

Example

The following table provides an example of the listab command.

Command example (Sheet 1 of 2)

Command:	> listab
Description of task:	Display the statistics for the listab pools.

listab (end)

Command example (Sheet 2 of 2)

MAP response:	>listab		
	POOL	LISTABS IN USE	LISTABS AVAILABLE
	0	2391	63129
	1	0	65520
	2	0	65520
	3	0	65520
	4	0	65520
	5	0	65520
	6	0	65520
	7	0	65520
	8	0	65520
	9	0	65520
	10	0	65520
	11	0	65520
	12	0	65520
	13	0	65520
LISTAB POOLS 1 THROUGH 13 ARE DEDICATED TO OVRXX TABLE			
LISTAB POOL 0 IS USED BY ALL OTHER TABLES USING LISTABS			
Explanation:	The statistics for the listabs that are in use, and the listabs that are available, are displayed.		

Responses

There are no examples of responses to the listab command.

mtrcount

Type

The mtrcount command is a nonmenu command.

Target

The command target for the mtrcount command is SuperNode, BRISC.

Description

The mtrcount command displays meter counts for a specific line, trunk, or Logical Meter Group (LMG). The optional print parameter can be used to send the output to the specified device. If that device is a storage device (that is, not an input/output device), information is recorded in the file mtrcounts.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

Feature 59022366 changed the mtrcount command to display meter counts for ETSI BRI line agents.

Limitations and restrictions

The following limits and restrictions apply to the tariff command:

- One meter block is allocated for each LEN, and the meter block is allocated for only the primary DN. Therefore, if one LEN has multiple DNs, the meter count is displayed for only the primary DN.

Syntax

The mtrcount command syntax is as follows:

```
mtrcount    <agent type> {LINE, TRUNK, LMG}  
            <agent id> {DN, CLLI, LMG}  
            [print]  
            <print on/off> {ON, OFF}  
            <device name>
```

mtrcount (continued)

The following table describes the parameters and variables of the mtrcount command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
agent type	LINE, TRUNK, LMG	This variable specifies the agent type.
agent id	LINE: the DN, or an SNPA and DN. TRUNK: the CLLI. LMG: numeric, up to 18 characters.	This variable specifies the agent ID.
print	print	This parameter specifies whether file creation is on a storage medium or a printer. This is an optional parameter, and the default is OFF.
print on/off	ON or OFF	This parameter specifies whether printing is on or off.
device name	character string	This variable specifies the name of an I/O or storage device.

Example

The following table provides an example of the mtrcount command.

Command example

Command:	> mtrcount line 7831008
Description of task:	Display the metering count for the DN 7831008.
MAP response:	DN: 1027831008 DATE: 00/06/14 MTR NAME: FEATURE MTR COUNT: 00000070 WRAP:N MTR NAME: LOCAL MTR COUNT: 00000500 WRAP:N MTR NAME: TOLL MTR COUNT: 00097647 WRAP:N
Explanation:	The system displays the metering counts for the primary DN 7831008. The meter count for features is 70, for local calls is 500, and for toll is 97647. None of the meters has wrapped.

mtrcount (end)

Responses

The following table explains possible responses to the mtrcount command.

MAP responses with associated meanings and actions

Command:	> mtrcount
MAP response:	Undefined agent
Meaning:	The DN/CLLI/LMG for a trunk is undefined.
Actions:	Enter the correct DN/CLLI/LMG.
Command:	> mtrcount
MAP response:	Agent does not have software meters
Meaning:	The DN/CLLI/LMG does not have metering applied.
Actions:	None
Command:	> mtrcount
MAP response:	Agent has no MTRBLK allocated
Meaning:	The DN/CLLI/LMG does not have a meter block allocated.
Actions:	Execute command AUDIT ALL at the MTRSYS level of the MAP display. Check MTR logs.
Command:	> mtrcount
MAP response:	Trunk metering not supported
Meaning:	You cannot display meter counts for trunks. Trunk metering is not supported.
Actions:	None

mtrver

Type

The mtrver command is a nonmenu command.

Target

The command target for the mtrver command is SuperNode, BRISC.

Description

The mtrver command enables switch operators to verify the content and agreement of the Tariff database. After any changes have been made to the metering tariff tables, the mtrver command can be used to ensure that all networks have valid tariffs for all time periods. Metering problems can occur during call processing if these datafill inconsistencies are in the database.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

Feature 59022366 changed the mtrver command to enable verification of the consistency of the metering tariff tables for ETSI BRI line agents.

Limitations and restrictions

The mtrver command has no limits or restrictions.

Syntax

The mtrver command syntax is as follows:

```
mtrver    <database type> {MOG, UNUSED>
          <MOG identifier> {mogid, ALLMOGS}
          <meter type> {AGENTS, SWMETERS, ALL}
```

mtrver (continued)

The following table describes the parameters and variables of the mtrver command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
database type	MOG or UNUSED	This variable specifies the database type. Enter MOG to verify the content and agreement of the MOG information in the database. If you enter MOG, you must also enter a MOG identifier and a meter type. Enter UNUSED to list unused tuples and tables.
MOG identifier	mogid (alphanumeric) or ALLMOGS	This variable specifies the MOG identifier. Enter a mogid to verify the information for only that MOG. Enter ALLMOGS to verify metered lines and metered trunks for all mogids in table MTRMOG.
meter type	AGENTS SWMETERS ALL	This variable specifies the meter type. Enter AGENTS to verify the metered lines and metered trunks associated with the mogid. Enter SWMETERS to verify the software meters associated with the mogid. Enter ALL to verify the metered lines, metered trunks and software meters associated with the mogid.

Example

The following table provides an example of the mtrver command.

Command example (Sheet 1 of 2)

Command:	> mtrver mog mog_0 agents
Description of task:	Verify the metered lines and metered trunks for the MOG with mogid MOG_0.

mtrver (end)

Command example (Sheet 2 of 2)

MAP response:	<pre>***** METERED AGENTS ***** Metered Originator Group: MOG_0 ----- The following Metered Lines are contained within MOG MOG_0. Metered Agent ----- 1027831008 1027831009 ----- Metered Originator Group: MOG_0 ----- The following Metered Trunk Groups are contained within MOG MOG_0. Metered Agent ----- OGPRIAB -----</pre>
Explanation:	The MOG with mogid MOG_0 contains the metered lines 1027831008 and 1027831009, and the metered trunk group OGPRIAB.

TRKTOT

Type

The TRKTOT command is a nonmenu command.

Target

The command target for the TRKTOT command is SuperNode, BRISC, and XACORE.

Description

The TRKTOT command is used for displaying the total numbers of allocated and idle trunks in the switch. The TRKTOT command has two fields:

- TOTAL NCCT is the number of trunk circuits allocated in the switch
- TOTAL NWCCT is the number of trunk circuits that are available for service

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

The TRKTOT command is new for the MMP15 release.

Limitations and restrictions

The TRKTOT command has no limitations or restrictions.

Syntax

The TRKTOT command syntax is as follows:

```
trktot
```

Example

The following table provides an example of the TRKTOT command.

Command example (Sheet 1 of 2)

Command:	> trktot
Description of task:	Display the total number of active trunk registers.

TRKTOT (end)

Command example (Sheet 2 of 2)

MAP response:	TOTAL NCCT ----- 720 TOTAL NWCCT ----- 600
Explanation:	The number of trunk circuits allocated in the switch is 720. The number of trunk circuits available for service is 600.

Responses

There is no change to the TRKTOT command responses.

2 AINTITT level commands

This chapter provides an overview of the AINTITT level. This chapter also provides detailed information on new or changed commands in the AINTITT level.

The following table alphabetically lists the commands available at the AINTITT level.

Table 2-1

Command
changetiid
clear
create
disable
display
enable
help
quit
subscribe

Description

The AIN trigger item transition tool increment (AINTITT) MAP level

How to access the AINTITT level

Access the AINTITT level from the CI environment:

> AINTITT

How to return to the CI

Return to the CI environment:

> **quit**

create

Type

The create command is a nonmenu command.

Target

The command target for the create command is ALL.

Description

The create command

Release history

This section identifies if the command is new or changed, and the applicable software release.

CCM12

Feature 59008267 allows the create command to convert PODPATTR tuples with related SDS trigger groups to functionally equivalent trigger items with the LARP option.

Limitations and restrictions

The create command has no limits or restrictions.

Syntax

There is no change to the create command syntax.

Example

There is no change to the create command example.

Responses

The following table explains possible responses to the create command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>CREATE OFFICE NOPROMPT
MAP response:	>PODPATTR tuple unconverted, key = <digits>
Meaning:	The CREATE command of the trigger item transition tool either did not find a match between a trigger group and this PODPATTR tuple or the matched trigger group was not converted.

create (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Actions:	After the completion of the CREATE command of the trigger item transition tool, review the unconverted PODPATTR tuples and verify against the trigger groups to determine if there was an expected match. If there was an expected match and the trigger group was converted, manually update the trigger item that was created from this trigger group by adding a LARP option through table control and specifying the values that were datafilled in PODPATTR.
Command:	>CREATE OFFICE NOPROMPT
MAP response:	PODPATTR tuple converted, key = <digits>
Meaning:	The CREATE command of the trigger item transition tool found a match between a trigger group that was converted and this PODPATTR tuple. However, the PODPATTR conversion record failed and only CONVERTED tuples are reported.
Actions:	After the completion of the CREATE command of the trigger item transition tool, the user should review the entire PODPATTR table against the converted PODPATTR tuples that were reported to determine the unconverted PODPATTR tuples. The user should review the unconverted PODPATTR tuples and verify against the trigger groups to determine if a match was expected. If a match was expected and the trigger group was converted, the user manually updates the trigger item that was created from this trigger group by adding a LARP option through table control and specifying the values that were datafilled in PODPATTR.

3 C7TTP level commands

This chapter provides an overview of the C7TTP level. This chapter also provides detailed information on new or changed commands in the C7TTP level.

The following table alphabetically lists the commands available at the C7TTP level.

Table 3-1

Command
cic

Description

Use the C7TTP level of the MAP to test and maintain CCS7 trunks.

How to access the C7TTP level

To access the C7TTP level, enter the following from the CI environment:

```
> mapci;mtc;trks;ttp;c7ttp
```

How to return to the CI

Return to the CI environment:

```
>quit
```

cic

Type

The cic command is a menu listed command.

Target

The command target for the cic command is BRISC and XACORE.

Description

The cic command is used to display the circuit identification code (CIC) of the posted trunk.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

Feature 59022906 enabled the CIC to be displayed in 7-5 format as an alternative to the existing 14-bit format. The display format is set by the office parameter C7_CIC_7_5_FORMAT.

Limitations and restrictions

The cic command has no limits or restrictions.

Syntax

The cic command syntax is as follows:

```
cic
```

Example

The following table provides an example of the cic command.

Command example

Command:	> cic
Description of task:	Display the CIC of the posted trunk.
MAP response:	Circuit ID Code (CIC) : 3-5
Explanation:	The CIC of the posted trunk, in 7-5 format, is carrier number 3 and channel number 5.

Responses

The following table explains possible responses to the cic command.

MAP responses with associated meanings and actions

Command:	> cic
MAP response:	Circuit ID Code (CIC) : 1
Meaning:	The CIC of the posted trunk, in 14-bit format, is 1.
Actions:	None
Command:	> cic
MAP response:	FAILED, NO CIRCUIT
Meaning:	No circuit is posted.
Actions:	Post a circuit and retry the command.
Command:	> cic
MAP response:	FAILED, NOT A CCS7 TRUNK
Meaning:	The posted circuit is not a CCS7 trunk.
Actions:	Post a circuit that contains a CCS7 trunk and retry the command.
Command:	> cic
MAP response:	FAILED, INCOMPLETE DATAFILL
Meaning:	The posted trunk member is not datafilled in table C7TRKMEM.
Actions:	Add a tuple for the posted trunk member to table C7TRKMEM.

4 C7TULINK level commands

This chapter provides an overview of the C7TULINK level. This chapter also provides detailed information on new or changed commands in the LINKDIR level.

The following table alphabetically lists the commands available at the C7TULINK level.

Table 4-1

Command
BUILD
DISPLAY
DUMP
INTERCEPT
MASK
MATCH
MONITOR

Description

Use the C7TULINK level of the MAP to access commands for monitoring CCS7 messages or links.

The basic C7TULINK environment (C7TULINK_PMT7) allows you to monitor messages. The password-protected C7TULINK environment

(C7TULINK_ILPT7) allows you to build, send, intercept, and monitor messages.

ATTENTION

You cannot enter message tracing criteria using the C7TULINK commands when any other message tracing is in progress. This restriction applies to C7MON and SIGRTU commands.

How to access the C7TULINK level

Access the C7TULINK level from the CI environment:

```
> c7tu;c7tulink
```

How to return to the CI

Return to the CI environment:

```
> quit
```

build

Type

The BUILD command is a non-menu listed command.

Target

The command target for the BUILD command is ALL.

Description

This command is one of the C7TU test tool commands. It allows users to build a CCS7 message. This message can then be inserted on a link by the C7TU SEND command.

Effective with MMP15, users can build a message with any of the supported point code (PC) formats: BASIC, INTL, AUSTRIA, BANGLADESH, CHINA, GERMAN, and TURK in a CCITT network.

Release history

ISN06 (TDM)

Support added for point code format BANGLADESH.

MMP15

Point code format TURK added.

Limitations and restrictions

The following limitations and restrictions apply to the BUILD command:

- Switches in the network cannot distinguish between CCS7 test messages and normal CCS7 messages, after they are sent into the network.

Syntax

The BUILD command syntax is as follows:

```
build <Message number> <Network type> DEFAULT <Message type>  
<Message body>
```

or

```
build <Message number> <Network type> LABEL <NI> <Priority>  
<DPC> <OPC> <SLS> <Message type> <Message body>
```

In the default setting:

- The default OPC is taken from table C7NETWRK.
- The default DPC is taken from table C7RTESET.

build (continued)

- The default priority is 0.
- The default SLS is 0.

The following table describes the parameters and variables of the BUILD command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
Message number	0 to 7	Message index of built message.
Network type	ANSI, CCITT, JPN, NTC, TTC	Network type for which the message is built.
NI	INTL, INTLSP, NATL, NATLSP	Network indicator.
Priority	0 to 3	Message priority.
DPC		Destination point code. It is in Point Code format and depends on the network type. Respective formats and values are: CCITT BASIC <point code> {0 to 16383} INTL <zone> <areanetw> <sigpoint> {0 to 7} {0 to 255} {0 to 7} AUSTRIA <zone> <region> <sigpoint> {0 to 31} {0 to 15} {0 to 31} BANGLADESH <zone> <region> <sigpoint> {0 to 7} {0 to 15} {0 to 127} CHINA <zone> <exchange> <sigpoint> {0 to 15} {0 to 127} {0 to 7}

build (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
OPC		GERMAN <numarea> <hvst> <kvst> <sigpoint> {0 to 15} {0 to 7} {0 to 15} {0 to 7}
		TURK <zone> <region> <sigpoint> {0 to 15} {0 to 7} {0 to 127}
		ANSI <DPC-MEMBER> <DPC-CLUSTER> <DPC-NETWORK> {0 to 255} {0 to 255} {0 to 255}
		JPN and TTC {<DPC-MAINAREA> <DPC-SUBAREA> <DPC-AREAUNIT>} {0 to 31} {0 to 15} {0 to 127}
		NTC {<DPC-SIGPOINT> <DPC-SUBAREA> <DPC-MAINAREA>} {0 to 255} {0 to 255} {0 to 255}
		Origination point code. It is in Point Code format and depends on the network type. Respective formats and values are:
		CCITT BASIC <point code> {0 to 16383}
		INTL <zone> <areanetw> <sigpoint> {0 to 7} {0 to 255} {0 to 7}
		AUSTRIA <zone> <region> <sigpoint> {0 to 31} {0 to 15} {0 to 31}
		BANGLADESH <zone> <region> <sigpoint> {0 to 7} {0 to 15} {0 to 127}
		CHINA <zone> <exchange> <sigpoint> {0 to 15} {0 to 127} {0 to 7}

build (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
		GERMAN <numarea> <hvst> <kvst> <sigpoint> {0 to 15} {0 to 7} {0 to 15} {0 to 7} TURK <zone> <region> <sigpoint> {0 to 15} {0 to 7} {0 to 127} ANSI {<OPC-MEMBER> <OPC-CLUSTER> <OPC-NETWORK> {0 to 255} {0 to 255} {0 to 255} JPN and TTC {<OPC-MAINAREA> <OPC-SUBAREA> <OPC-AREAUNIT> {0 to 31} {0 to 15} {0 to 127} NTC <OPC-SIGPOINT> <OPC-SUBAREA> <OPC-MAINAREA> {0 to 255} {0 to 255} {0 to 255}
SLS	CCITT, NTC, TTC: 0 to 15 ANSI, JPN: 0 to 31	Signaling link selector. It is an integer in which the value range depends on the network type.
Message type	character string	The name of the message to be built.
Message body	{DATA [<HEX BYTES> ... STRING], PARMS <CIC> [<HEX BYTES>]}	The contents of the message. The range for CIC (Circuit Identification Code) is 0 to 4095.

build (continued)**Example 1**

The following table provides an example of the BUILD command for the Turkish PC.

Command example

Command:	> BUILD 2 CCITT LABEL INTL 0 TURK 2 4 24 TURK 7 3 19 10 IAM PARMS 150 00 60 00 0A 00 02 08 06 03 10 87 24 01 F7 0A
Description of task:	Build an IAM message in the Turkish CCITT network, with OPC 2 4 24, DPC 7 3 19, SLS 10, over CIC 150, with the given HEX byte contents, with Message Number 2.
MAP response:	Message 2 was built successfully.
Explanation:	The message was built successfully.

Example 2

The following table provides an example of the BUILD command for the Bangladesh PC.

Command example

Command:	> BUILD 0 CCITT DEFAULT RSC PARMS 500
Description of task:	Build a Bangladesh CCITT RSC message over CIC 500, with Message Number 0.
MAP response:	Message 0 was built successfully.
Explanation:	The message was built successfully.
Command:	> BUILD 1 ANSI DEFAULT QQ
Description of task:	Build a wrong ANSI message, with Message Number 1.
MAP response:	ERROR: INVALID MSG CODE:QQ
Explanation:	The message was NOT built successfully.
Command:	> BUILD 2 CCITT LABEL INTL 0 BANGLADESH 2 4 24 BANGLADESH 7 3 19 10 IAM PARMS 150 00 60 00 0A 00 02 08 06 03 10 87 24 01 F7 0A
Description of task:	Build an IAM message in the Bangladesh CCITT network, with OPC 2 4 24, DPC 7 3 19, SLS 10, over CIC 150, with the given HEX byte contents, with Message Number 2.

build (end)

Command example

MAP response:	Message 2 was built successfully.
Explanation:	The message was built successfully.

Responses

The following table explains possible responses to the <command_name> command.

MAP responses with associated meanings and actions

MAP response:	Message <Message Number> was built successfully.
Meaning:	The message has been built with the message number specified and is stored in the message table.
Actions:	You can use the built message in a SEND command.
MAP response:	Message <Message Number> was not built successfully.
Meaning:	No message was built.
Actions:	Due to a wrong entry, the BUILD command was not successful. Try the command again with new parameters.
MAP response:	ERROR: INVALID MSG CODE: <Message type>.
Meaning:	An invalid message type was entered.
Actions:	Check the message type entry and retry with a valid message type.

display

Type

The display command is a nonmenu listed command.

Target

The command target for the display command is ALL.

Description

This command is one of the C7TU test tool commands. It allows users to display previously built CCS7 test messages.

Release history

MMP15

Support added for point code format TURK.

Limitations and restrictions

The display command has no limits or restrictions.

Syntax

The display command syntax is as follows:

display <message number>

or

display <all>

The following table describes the parameters and variables of the display command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
message number	0 to 7	Index number of message to display.
	all	Displays all built messages.

display (continued)

Example

The following table provides examples of the display command.

Command example

Command:	> display 1
Description of task:	Display message 1.
MAP response:	<pre> C7TU MESSAGE SIO DPC OPC SLS num type length ni pr si ZONE REG SIGP ZONE REG SIGP 1 IAM 29 0 0 ISUP 002 003 004 003 004 005 0A num type length ni pr si ZONE REG SIGP ZONE REG SIGP 1 IAM 29 0 0 ISUP 002 004 024 007 003 019 0A </pre>
Explanation:	Message 1 is displayed.
Command:	> display ALL
Description of task:	Display all the built messages.
MAP response:	<pre> C7TU MESSAGE SIO DPC OPC SLS num type length ni pr si ZONE REG SIGP ZONE REG SIGP 0 RSC 14 0 2 ISUP ---default routing label--- Message bytes: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 --- 17 00 FD 04 FD FD 05 64 44 A1 A1 96 00 01 00 60 00 0A 00 08 06 03 10 87 24 01 F7 0A </pre>
Explanation:	All messages are displayed.
Command:	> display 7
Description of task:	Try to display a non-built message.
MAP response:	Message number 7 has not been built.
Command:	> display a
Description of task:	Try to display a built message with an invalid argument.
MAP response:	EITHER incorrect optional parameter(s) OR too many parameters.

display (end)

Responses

The following table explains possible responses to the display command.

MAP responses with associated meanings and actions

MAP response:	Message number <n> has not been built yet.
Meaning:	You specified a message number for a message that has not been built yet.
Actions:	None
MAP response:	EITHER incorrect optional parameter(s) OR too many parameters.
Meaning:	You have entered an incorrect parameter.
Actions:	Check the parameter(s) for your mistake and retry in the correct form.

monitor

Type

The monitor command is a nonmenu listed command.

Target

The command target for the monitor command is ALL.

Description

This command is one of the C7TU test tool commands. Use the monitor command to view incoming or outgoing CCS7 messages.

The routing label identifies a network type, network indicator, priority, destination point code (DPC), origination point code (OPC), and signaling link selector (SLS). You can identify specific bytes in the data parameter associated with a message code. You can specify the message type or parameters for selected message types such as the CIC for ISUP messages.

Release history

ISN06 (TDM)

Support added for point code format BANGLADESH.

MMP15

Support added for point code format TURK.

Limitations and restrictions

The following limitations and restrictions apply to the monitor command:

- Before you use the monitor command, use the select command to enable message monitoring on the peripheral modules (PM).
- To display the entries in the C7TU item table that are generated by the monitor command, use the C7TU status command.
- Intercept commands must be listed first in the item list.
- If the message code used in a monitor command string is not in the list of valid message codes, the monitor command does not operate. To review the list of valid message codes, use the msgcode command in the C7TU directory.
- Entries are matched from the first entry in the match table. The process stops when an entry matches or when the search does not produce a match. After the first suitable match, further entries are not evaluated. Ensure that your match entries are not screened by someone else's entries.

monitor (continued)

Syntax

The monitor command syntax is as follows:

```
monitor <Link ID> <Direction> <Network type> LABEL <NI>  
<Priority> <DPC> <OPC> <SLS> <Message type> <Message body>
```

or

```
monitor <Link ID> <Direction> <Network type> ALL <Message type>  
<Message body>
```

The following table describes the parameters and variables of the monitor command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
Link ID	{ALL, LINK <Linkset name> <Signaling link code>}	The linkset over which the message(s) will be monitored. The linkset name is a string. The value range consists of the linksets defined in table C7LKSET. ALL means all of the defined links. The value range for signaling link code is 0 to 15.
Direction	IN, OUT, or BOTH	The direction of the message(s) to be monitored: incoming, outgoing, or both.
Network type	ANSI, CCITT, JPN, NTC, TTC	Network type for which the message is built.
NI	INTL, INTLSP, NATL, NATLSP	Network indicator.
Priority	0 to 3	Message priority.

monitor (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
DPC		Destination point code. It is in Point Code format and depends on the network type. Respective formats and values are: CCITT BASIC <point code> {0 to 16383} INTL <zone> <areanetw> <sigpoint> {0 to 7} {0 to 255} {0 to 7} AUSTRIA <zone> <region> <sigpoint> {0 to 31} {0 to15} {0 to 31} BANGLADESH <zone> <region> <sigpoint> {0 to 7} {0 to15} {0 to 127} CHINA <zone> <exchange> <sigpoint> {0 to15} {0 to127} {0 to 7} GERMAN <numarea> <hvst> <kvst> <sigpoint> {0 to 15} {0 to 7} {0 to 15} {0 to 7} TURK <zone> <region> <sigpoint> {0 to15} {0 to7} {0 to 127} ANSI <DPC-MEMBER> <DPC-CLUSTER> <DPC-NETWORK> {0 to 255} {0 to 255} {0 to 255} JPN and TTC {<DPC-MAINAREA> <DPC-SUBAREA> <DPC-AREAUNIT>} {0 to 31} {0 to15} {0 to127} NTC {<DPC-SIGPOINT> <DPC-SUBAREA> <DPC-MAINAREA>} {0 to 255} {0 to 255} {0 to 255}

monitor (continued)

Command parameter and variable descriptions

Parameters and variables	Value	Description
OPC		Origination point code. It is in Point Code format and depends on the network type. Respective formats and values are: CCITT BASIC <point code> {0 to 16383} INTL <zone> <areanetw> <sigpoint> {0 to 7} {0 to 255} {0 to 7} AUSTRIA <zone> <region> <sigpoint> {0 to 31} {0 to15} {0 to 31} BANGLADESH <zone> <region> <sigpoint> {0 to 7} {0 to15} {0 to 127} CHINA <zone> <exchange> <sigpoint> {0 to15} {0 to127} {0 to 7} GERMAN <numarea> <hvst> <kvst> <sigpoint> {0 to 15} {0 to 7} {0 to 15} {0 to 7} TURK <zone> <region> <sigpoint> {0 to15} {0 to7} {0 to 127} ANSI {<OPC-MEMBER> <OPC-CLUSTER> <OPC-NETWORK>} {0 to 255} {0 to 255} {0 to 255} JPN and TTC {<OPC-MAINAREA> <OPC-SUBAREA> <OPC-AREAUNIT>} {0 to 31} {0 to15} {0 to127} NTC <OPC-SIGPOINT> <OPC-SUBAREA> <OPC-MAINAREA>} {0 to 255} {0 to 255} {0 to 255}
SLS	CCITT, NTC, TTC: 0 to15 ANSI, JPN: 0 to 31	Signaling link selector. It is an integer in which the value range depends on the network type.

monitor (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
Message type	character string	The name of the message to be built.
Message body	{DATA [<HEX BYTES> ... STRING], PARMS <CIC> [<HEX BYTES>]}	The contents of the message. The range for CIC (Circuit Identification Code) is 0 to 4095.

Example

The following table provides an example of the monitor command.

Command example

Command:	> monitor all out ccitt all isup data
Description of task:	Set up a monitor entry to monitor all outgoing ISUP messages over all CCITT links.
MAP response:	MON match entry setup successfully
Explanation:	A monitor entry was set up that met the requirements.

Responses

The following table explains possible responses to the monitor command.

MAP responses with associated meanings and actions

MAP response:	MON match entry setup successfully
Meaning:	A monitor entry has been set up that matched the requirements.
Actions:	You can test the specified message over the specified link.
MAP response:	Error: Invalid Linkset Name
Meaning:	The linkset name entered is not defined in table C7LKSET.
Actions:	Verify the linkset name and retry the command with the correct name.
MAP response:	Error: Invalid Msgcode <xx>
Meaning:	You entered a message code that is not recognized by C7TU.

monitor (end)

MAP responses with associated meanings and actions

Actions:	Verify the message code and retry the command.
MAP response:	Error: Match Table Full.
Meaning:	You attempted to monitor a message, but the match table already has eight entries.
Actions:	Remove an entry from the match table and try the command again.
MAP response:	Only four monitors allowed in field environment.
Meaning:	You attempted to monitor, but four entries already existed in the match table.
Actions:	Remove an existing monitor or monitor request, and try the command again.
MAP response:	Warning: C7TU is not enabled in any PMs. Warning: C7TU is not enabled on <pm num> where this link resides.
Meaning:	The command executed and the request was added to the match table.
Actions:	Use the select command to enable C7TU in the PMs that are to be used.
MAP response:	Msg type has been overwritten.
Meaning:	The command executed. The message body that follows the routing label has been overwritten with the entries or default data parameter. The default entry fills all data bytes after the routing label, up to 16 bytes for a match entry, with zeroes.
Actions:	None

intercept

Type

The intercept command is a nonmenu listed command.

Target

The command target for the intercept command is ALL.

Description

This command is one of the C7TU test tool commands. Use the intercept command to intercept CCS7 messages received or sent on a link. The intercept command blocks the message in the link, so that the CCS7 system does not receive or send the message.

The routing label identifies a network indicator, priority, destination point code (DPC), origination point code (OPC), and signaling link selector (SLS). You can identify specific bytes in the data parameter associated with a message code. You can specify the message type or parameters for selected message types such as the CIC for ISUP messages.

Release history

ISN06 (TDM)

Support added for point code format BANGLADESH.

MMP15

Support added for point code format TURK.

Limitations and restrictions

The following limitations and restrictions apply to the intercept command:

- Use the C7TU status command to display the entries in the C7TU item table that you can intercept.
- Intercept commands must be listed first in the item list.
- Each intercept command must be followed by a corresponding “monitor” command.



DANGER

Possible loss of service

Use the intercept command with care, because CCS7 messages that are removed can affect the operation of the node and the network.

intercept (continued)

Syntax

The intercept command syntax is as follows:

```
intercept <Link ID> <Direction> <Network type> LABEL <NI>  
<Priority> <DPC> <OPC> <SLS> <Message type> <Message body>
```

or

```
intercept <Link ID> <Direction> <Network type> ALL <Message  
type> <Message body>
```

The following table describes the parameters and variables of the intercept command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
Link ID	{ALL, LINK <Linkset name> <Signaling link code>}	The linkset over which the message(s) will be intercepted. The linkset name is a string. The value range consists of the linksets defined in table C7LKSET. ALL means all of the defined links. The value range for signaling link code is 0 to 15.
Direction	IN, OUT, or BOTH	The direction of the message(s) to be intercepted: incoming, outgoing, or both.
Network type	ANSI, CCITT, JPN, NTC, TTC	Network type for which the message is built.
NI	INTL, INTLSP, NATL, NATLSP	Network indicator.
Priority	0 to 3	Message priority.

intercept (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
DPC		Destination point code. It is in Point Code format and depends on the network type. Respective formats and values are: CCITT BASIC <point code> {0 to 16383} INTL <zone> <areanetw> <sigpoint> {0 to 7} {0 to 255} {0 to 7} AUSTRIA <zone> <region> <sigpoint> {0 to 31} {0 to15} {0 to 31} BANGLADESH <zone> <region> <sigpoint> {0 to 7} {0 to15} {0 to 127} CHINA <zone> <exchange> <sigpoint> {0 to15} {0 to127} {0 to 7} GERMAN <numarea> <hvst> <kvst> <sigpoint> {0 to 15} {0 to 7} {0 to 15} {0 to 7} TURK <zone> <region> <sigpoint> {0 to15} {0 to7} {0 to 127} ANSI <DPC-MEMBER> <DPC-CLUSTER> <DPC-NETWORK> {0 to 255} {0 to 255} {0 to 255} JPN and TTC {<DPC-MAINAREA> <DPC-SUBAREA> <DPC-AREAUNIT>} {0 to 31} {0 to15} {0 to127} NTC {<DPC-SIGPOINT> <DPC-SUBAREA> <DPC-MAINAREA>} {0 to 255} {0 to 255} {0 to 255}

intercept (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
OPC		Origination point code. It is in Point Code format and depends on the network type. Respective formats and values are: CCITT BASIC <point code> {0 to 16383} INTL <zone> <areanetw> <sigpoint> {0 to 7} {0 to 255} {0 to 7} AUSTRIA <zone> <region> <sigpoint> {0 to 31} {0 to 15} {0 to 31} BANGLADESH <zone> <region> <sigpoint> {0 to 7} {0 to 15} {0 to 127} CHINA <zone> <exchange> <sigpoint> {0 to 15} {0 to 127} {0 to 7} GERMAN <numarea> <hvst> <kvst> <sigpoint> {0 to 15} {0 to 7} {0 to 15} {0 to 7} TURK <zone> <region> <sigpoint> {0 to 15} {0 to 7} {0 to 127} ANSI {<OPC-MEMBER> <OPC-CLUSTER> <OPC-NETWORK> {0 to 255} {0 to 255} {0 to 255} JPN and TTC {<OPC-MAINAREA> <OPC-SUBAREA> <OPC-AREAUNIT> {0 to 31} {0 to 15} {0 to 127} NTC <OPC-SIGPOINT> <OPC-SUBAREA> <OPC-MAINAREA> {0 to 255} {0 to 255} {0 to 255}
SLS	CCITT, NTC, TTC: 0 to 15 ANSI, JPN: 0 to 31	Signaling link selector. It is an integer in which the value range depends on the network type.

intercept (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
Message type	character string	The name of the message to be built.
Message body	{DATA [<HEX BYTES> ... STRING], PARMS <CIC> [<HEX BYTES>]}	The contents of the message. The range for CIC (Circuit Identification Code) is 0 to 4095.

Example 1

The following table provides an example of the intercept command for Turkish PC.

Command example

Command:	> intercept link ab_links 0 in ccitt label intl 0 turk 2 3 4 turk 3 4 5 4 isup data
Description of task:	Set up an intercept entry to intercept all Turkish CCITT messages with OPC 2 3 4, DPC 3 4 5, and SLS 4 incoming to linksets datafilled as AB_LINKS in table C7LKSET.
MAP response:	INT match entry setup successfully
Explanation:	Matching messages are intercepted and removed from the links.

Example 2

The following table provides exampleS of the intercept command for Bangladesh PC.

Command example

Command:	> INT LINK LKS_AB 0 IN CCITT LABEL INTL 0 BANGLADESH 2 3 4 BANGLADESH 3 4 5 4 ISUP DATA
Description of task:	Set up an intercept entry to intercept all Bangladesh CCITT messages with OPC 2 3 4, DPC 3 4 5, and SLS 4 incoming to linksets datafilled as AB_LINKS in table C7NETWORK.
MAP response:	INT match entry setup successfully
Command:	> INT LINK LKS_AB 0 BOTH CCITT LABEL INTL 0 BANGLADESH 2 3 4 BANGLADESH 3 4 5 4 ISUP DATA

intercept (end)

Command example

Description of task:	Set up an intercept entry for a link undefined in table C7NETWORK (for example, LKS_AB).
MAP response:	ERROR: INVALID LINKSET NAME

Responses

The following table explains possible responses to the intercept command.

MAP responses with associated meanings and actions

MAP response:	INT match entry setup successfully
Meaning:	An intercept entry has been set up that matched the requirements.
Actions:	None.
MAP response:	Error: Invalid Linkset Name
Meaning:	The linkset name entered is not defined in table C7LKSET.
Actions:	Verify the linkset name and retry the command with the correct name.
MAP response:	Error: Invalid Msgcode <xx>
Meaning:	You entered a message code that is not recognized by C7TU.
Actions:	Verify the message code and retry the command.
MAP response:	Error: Match Table Full.
Meaning:	You attempted to intercept a message, but the match table already has eight entries.
Actions:	Remove an entry from the match table and try the command again.
MAP response:	Only four intercepts allowed in field environment.
Meaning:	You attempted to intercept, but four entries already existed in the match table.
Actions:	Remove an existing intercept request, and try the command again.
MAP response:	Warning: C7TU is not enabled in any PMs. Warning: C7TU is not enabled on <pm num> where this link resides.
Meaning:	The command executed and the request was added to the match table.
Actions:	Use the select command to enable C7TU in the PMs that are to be used.

match

Type

The match command is a nonmenu listed command.

Target

The command target for the match command is ALL.

Description

This command is one of the C7TU test tool commands. Use the match command to change the match array bytes in a monitor or intercept entry in the C7TU item table.

Release history

MMP15

Support added for point code format TURK.

Limitations and restrictions

The match command has no limitations or restrictions.

Syntax

The match command syntax is as follows:

```
match <Item number> <Byte offset> [<Match bytes> ...string]
```

The following table describes the parameters and variables of the match command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
Item number	0 to 7	The number of the monitor or intercept entry.
Byte offset	0 to 17	The starting byte of the change.
Match bytes		Data to be placed in the match array. Values are multiple bytes of data. Each byte of data must be separated by a space.

Example

The following table provides an example of the match command.

Command example

Command:	> match 3 5 11 01																
Description of task:	Set the match entry of item 3 in the C7TU table so that starting with byte 5, the block of two bytes has the values 11 01.																
MAP response:	<pre> C7TU INT SIO DPC OPC SLS TYPE NUM DIR NET NI PR SI ZONE REG SIGP ZONE REG SIGP 3 IN CCITT INTL 0 ISUP 2 3 4 3 4 5 4 XXX 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- Match: 00 04 00 00 05 64 44 A1 41 00 00 00 00 00 00 00 00 00 Mask: 00 FF 00 00 FF FF FF FF FF 00 00 00 00 00 00 00 00 00 C7TU INT SIO DPC OPC SLS TYPE NUM DIR NET NI PR SI ZONE REG SIGP ZONE REG SIGP 3 IN CCITT INTL 0 ISUP 0 8 17 3 4 4 4 XXX 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- Match: 00 04 00 00 05 11 01 A1 41 00 00 00 00 00 00 00 00 00 Mask: 00 FF 00 00 FF FF FF FF FF 00 00 00 00 00 00 00 00 00 </pre>																
Explanation:	The values of bytes 5 and 6 are changed to 11 and 01.																

Responses

The following table explains possible responses to the match command.

MAP responses with associated meanings and actions

MAP response:	Match entry <n> is not in use.
Meaning:	The item number entered has not been assigned.
Actions:	Assign the entry. Repeat the match command.
MAP response:	Out of range: <BYTE OFFSET> (0 to 15) Enter: <BYTE OFFSET> [<MATCH BYTES>]
Meaning:	The byte offset range was entered incorrectly.
Actions:	Reenter the command.

mask

Type

The mask command is a nonmenu listed command.

Target

The command target for the mask command is ALL.

Description

This command is one of the C7TU test tool commands. Use the mask command to change the mask array bytes in a monitor or intercept entry in the C7TU item table.

Release history

MMP15

Support added for point code format TURK.

Limitations and restrictions

The mask command has no limits or restrictions.

Syntax

The mask command syntax is as follows:

```
mask <Item number> <Byte offset> [<Mask bytes> ...string]
```

The following table describes the parameters and variables of the mask command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
Item number	0 to 7	The number of the monitor or intercept entry.
Byte offset	0 to 17	Starting byte of the change.
Mask bytes		Data to be placed in the mask array. Values are multiple bytes of data. Each byte of data must be separated by a space.

Example

The following table provides an example of the mask command.

Command example

Command:	> mask 2 4 00																																																																																																																																																																																																																																																																																																																																																																																																																																												
Description of task:	Set the Mask entry of item 2 in the C7TU table so that byte 4 has the value 00.																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Responses

The following table explains possible responses to the mask command.

MAP responses with associated meanings and actions

MAP response:	Mask entry <n> is not in use.
Meaning:	The item number entered has not been assigned.

MAP responses with associated meanings and actions

Actions:	Assign the entry. Repeat the mask command.
MAP response:	Out of range: <BYTE OFFSET> (0 to 15) Enter: <BYTE OFFSET> [<MASK BYTES>]
Meaning:	The byte offset range was entered incorrectly.
Actions:	Reenter the command.

dump

Type

The dump command is a nonmenu listed command.

Target

The command target for the dump command is ALL.

Description

This command is one of the C7TU test tool commands. Use the dump command to display the contents of monitor and intercept items in the C7TU item table.

Release history

MMP15

Support added for point code format TURK.

Limitations and restrictions

The dump command has no limits or restrictions.

Syntax

The dump command syntax is as follows:

```
dump <first item> [<last item>]
```

The following table describes the parameters and variables of the dump command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
first item	0 to 7	The first item to display from the C7TU match table.
last item	0 to 7	The last item to display from the C7TU match table. If this optional parameter is not input, the dump command displays the item specified by the first item.

dump (continued)

Example

The following table provides examples of the dump command.

Command example

Command:	> dump 2
Description of task:	Dump the contents of item 2 in the C7TU table.
MAP response:	<pre>NUMBER OF VALID MATCH ENTRIES = 4 C7TU MON SIO DPC OPC SLS TYPE NUM DIR NET NI PR SI XXXX XXXX XXXX XXXX XXXX XXXX 2 OUT CCITT ALL XX ISUP XXX XXX XXX XXX XXX XXX XX XXX 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- Match: 00 04 00 00 05 E0 2C EC 7A 00 00 00 00 00 00 00 00 Mask: 00 FF 00 00 0F 00 00 00 00 00 00 00 00 00 00 00 00</pre>
Explanation:	The contents of item 2 from the C7TU table are displayed.
Command:	> dump 1 3
Description of task:	Dump the contents of item 0 to item 3 in the C7TU table.
MAP response:	<pre>NUMBER OF VALID MATCH ENTRIES = 4 C7TU MON SIO DPC OPC SLS TYPE NUM DIR NET NI PR SI MEM CLU NET MEM CLU NET 1 IN ANSI ALL XX ISUP XXX XXX XXX XXX XXX XXX XX XXX 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- Match: 00 04 00 00 05 61 E0 EC B0 EB D7 00 00 00 00 00 00 Mask: 00 FF 00 00 0F 00 00 00 00 00 00 00 00 00 00 00</pre>

dump (end)**Command example**

```

C7TU MON      SIO      DPC      OPC      SLS TYPE
NUM DIR NET   NI  PR  SI XXXX XXXX XXXX  XXXX XXXX XXXX
 2  OUT CCITT ALL XX XXX  XXX XXX XXX  XXX XXX XXX XX XXX
 0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17
-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
Match: 00 04 00 00 05 E0 0C EC 72 00 00 00 00 00 00 00 00
Mask:  00 FF 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

C7TU INT      SIO      DPC      OPC      SLS TYPE
NUM DIR NET   NI  PR  SI ZONE REG SIGP ZONE REG SIGP
 3  IN CCITT INTL 0 ISUP  0  8  17  3  4  4  4 XXX
 0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17
-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
Match: 00 04 00 00 05 11 A1 00 00 00 00 00 00 00 00 00 00
Mask:  00 FF 00 00 FF FF FF FF FF FF 00 00 00 00 00 00

```

Explanation: The contents of item 2 from the C7TU table are displayed.

Responses

The following table explains possible responses to the dump command.

MAP responses with associated meanings and actions

MAP response:	Error: First item must not be greater than last item.
Meaning:	You attempted to display a range where the first item had a larger entry number in the match table than the last item.
Actions:	Verify the start and stop numbers and retry the command with a correct range.
MAP response:	There are no valid match entries in the specified range.
Meaning:	There are no match entries in the specified range.
Actions:	None

5 C7LKSET level commands

This chapter provides an overview of the C7LKSET level.

The following table alphabetically lists the commands available at the C7LKSET level.

Table 5-1

Command
QueryUsr

Description

Use the C7LKSET level of the MAP to query CCS7 linksets.

How to access the C7LKSET level

Access the C7LKSET level from the CI environment:

```
> mapci;mtc;ccs;ccs7;c7lkset
```

How to return to the CI

Return to the CI environment:

```
> quit all
```

QueryPC

Type

The QueryPC command is a menu unlisted command.

Target

The command target for the QueryPC command is ALL.

Description

The QueryPC command is a MAPCI command in the C7RTESET level that displays the destination point code (DPC) of a posted routeset and the far-end point code (FEPC) for the linkset of a route in the posted routeset.

Release history

ISN06 (TDM)

Support added for point code format BANGLADESH.

MMP15

Added support for point code format TURK.

Limitations and restrictions

The following limits and restrictions apply to the QueryPC command:

- Post a routeset that has been datafilled in table C7RTESET before entering the QueryPC command.
- To display the FEPC of the linkset of a given route, the route must exist in table C7RTESET.

Syntax

The QueryPC command syntax is as follows:

QueryPC <pc>

The following table describes the parameters and variables of the QueryPC command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
pc	dpc or fepc <route_number>	Point code. Enter the DPC of the posted routeset, or the FEPC and the route number (0 to 5).

QueryPC (continued)

Example

The following table provides examples of the QueryPC command.

Command example

Command:	> querypc		
Description of task:	Run querypc without any Routeset posted.		
MAP response:	Failed, no routeset posted.		
Explanation:	The command does not run.		
Command:	> querypc dpc		
Description of task:	Post a Routeset and display the DPC information for the linkset used by route 0.		
MAP response:	Linkset Name	Network Name	DPC
	AB_ROUTES	INTLNETA	CCITT7 INTL 2 004 5
Explanation:	The MAP displays the linkset name, network name, and point code details of the linkset for route 0 in the posted routeset.		
Command:	> querypc fepc 0		
Description of task:	List the FEPC information for the linkset used by route 0.		
MAP response:	Linkset Name	Network Name	FEPC
	STKBLKSET	C7TESTNETB	CCITT7 INTL 2 004 5
Explanation:	The MAP displays the linkset name, network name, and point code details of the linkset for route 0 in the posted routeset.		

Responses

The following table explains possible responses to the QueryPC command.

MAP responses with associated meanings and actions

MAP response:	Failed, no routeset posted
Meaning:	The QueryPC command was executed before a routeset was posted.

QueryPC (end)

MAP responses with associated meanings and actions

Actions:	Post a routeset from table C7RTESET, then retry the QueryPC command. To post a routeset, type: > mapci;mtc;ccs;ccs7;c7rteset > post c <rteset> Also ensure that the routeset exists in table C7RTESET.
MAP response:	Route number entered not datafilled
Meaning:	You attempted to display the FEPC information for the linkset of an undefined route.
Actions:	Check the route values for the posted routeset in table C7RTESET. If necessary, datafill the new route for the routeset. Retry the QueryPC command with the correct route.
MAP response:	Wrong number of parameters
Meaning:	The QueryPC command was entered with invalid parameters.
Actions:	Retry the QueryPC command with valid parameters.

QueryUsr

Type

The QueryUsr command is a menu listed command.

Target

The command target for the QueryUsr command is ALL.

Description

The QueryUsr command is a MAPCI command in the C7LKSET level that displays the users of a posted linkset and related user information such as the routeset name and the signaling point code. For CCITT networks, the QueryUsr command displays the linkset for formats AUSTRIA, BANGLADESH, BASIC, CHINA, INTL, GERMAN, and TURK.

Release history

ISN06 (TDM)

Support added for point code format BANGLADESH.

MMP15

Added support for point code format TURK.

Limitations and restrictions

The following limits and restrictions apply to the QueryUsr command:

- Post a linkset that has been datafilled in table C7LKSET before entering the QueryUsr command.

Syntax

The QueryUsr command syntax is as follows:

```
queryusr
```

The QueryUsr command has no parameters or variables.

Example 1

The following table provides an example of the QueryUsr command for Turkish PC.

Command example

Command:	> queryusr
Description of task:	List all routesets that use the posted linkset.

Command example

MAP response:	Routeset Name	Network Name	Point Code
	AB_ROUTES	INTLNETA	CCITT7 Turk 2 004 5
Explanation:	The MAP displays the signaling point code, the routeset name, and the network name of the routesets that use the posted linkset.		

Example 2

The following table provides an example of the QueryUsr command for Bangladesh PC.

Command example

Command:	> queryusr		
Description of task:	List all routesets that use the posted linkset.		
MAP response:	Routeset Name	Network Name	Point Code
	AB_ROUTES	INTLNETA	CCITT7 Bangladesh 2 004 5
Explanation:	The MAP displays the signaling point code, the routeset name, and the network name of the routesets that use the posted linkset.		

Responses

The following table explains possible responses to the QueryUsr command.

MAP responses with associated meanings and actions

MAP response:	Failed, no linkset posted
Meaning:	The QueryUsr command was executed before a linkset was posted.
Actions:	Post a linkset from table C7LKSET, then retry the QueryUsr command. To post a linkset, type: > mapci;mtc;ccs;ccs7;c7lkset > post c <lkset>

6 C7RTR level commands

This chapter provides an overview of the C7RTR level. This chapter also provides detailed information on new or changed commands in the C7RTR level.

The following table alphabetically lists the commands available at the C7RTR level.

Table 6-1

Command
activate
deactivate
download_mtp

Description

The C7RTR is the activation utility for Common Channel Signaling 7 (CCS7) link interface unit (LIU7) external routing. Use the C7RTR CI (command interpreter) tool to perform different functions on LIU7 external routers.

How to access the C7RTR level

Access the C7RTR level from the CI environment:

```
> c7rtr
```

How to return to the CI

Return to the CI environment:

```
> quit
```

activate

Type

The activate command is a nonmenu command.

Target

The command target for the activate command is ALL.

Description

Use the activate command to activate the Common Channel Signaling 7 (CCS7) link interface unit (LIU7) external routing functionality. The command sends a message to the digital trunk controllers (DTC) to use the LIU7s to route integrated services digital network (ISDN) user part (ISUP) messages.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TL12

Feature 59010705 (Multi-LPP External Routing) removes the following response:

External routing is not supported on a Single Point Code INode.
Remove the SSP_STP node types from the C7NETWRK table first.
External Routing was not activated.

The feature introduces the following warning response:

WARNING: You are activating LIU7 external routing while there are local SS7 node(s) with STP capability datafilled in the C7NETWRK table (NODE_TYPE = SSP_STP). If a total external router outage (TRO) occurs, STP traffic will stop because all signaling links will go SYSB.

Limitations and restrictions

The activate command has no limits or restrictions.

Syntax

The activate command syntax is as follows:

activate

This command has no parameters or variables.

activate (continued)**Example**

The following table provides an example of the activate command.

Command example

Command:	>activate
Description of task:	Activate the LIU7 external routing functionality.
MAP response:	External Routing has been activated.
Explanation:	External routing has been activated. LIU7s are now routing ISUP messages.

Responses

The following table explains possible responses to the activate command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>activate
MAP response:	External Routing is already active in the office. Do you want to reactivate External Routing? [y/n]
Meaning:	LIU7s are already routing ISUP messages.
Actions:	Enter y (yes) to reactivate external routing or n (no) to deactivate external routing.
Command:	>activate
MAP response:	The Routing Status is not sufficient to activate External Routing. Bring more routers into service. No action taken.
Meaning:	External routing is not activated.
Actions:	Bring more routers into service. Refer to table C7ROUTER.
Command:	>activate
MAP response:	There are CCS7 DTCs or SPMs in transient states. Use the C7RTR QUERY_EXT_ROUTING command to find out which ones, or check for DDM logs.
Meaning:	The CCS7 DTCs are not in a distributed data manger (DDM) stable state.
Actions:	No action taken.
Command:	>activate

activate (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

MAP response:	The External Routing Activation data was not distributed successfully to all nodes. Re-activate or wait for a DDM audit to correct the data. Also check for DDM logs for specification of problem nodes.
Meaning:	Data distribution manager has not distributed the external routing information to all nodes.
Actions:	Reactivate external routing or wait for a DDM audit to correct the data. Examine DDM logs for problems.
Command:	>activate
MAP response:	The C7ROUTER table must be datafilled with a minimum of <number of routers> routers to activate external routing. Please datafill more routers.
Meaning:	External routing has not been activated. There are not enough external routers datafilled.
Actions:	Datafill more routers. Refer to table C7ROUTER.
Command:	>activate
MAP response:	WARNING: You are activating LIU7 external routing while there are local SS7 node(s) with STP capability datafilled in the C7NETWRK table (NODE_TYPE = SSP_STP). If a total external router outage (TR0) occurs, STP traffic will stop because all signaling links will go SYSB.
Meaning:	This warning is an information-only message to explain the possible results of this command when the node type in table C7NETWRK is SSP_STP.
Actions:	No action taken.

deactivate

Type

The deactivate command is a nonmenu command.

Target

The command target for the deactivate command is ALL.

Description

Use the DEACTIVATE command to deactivate the Common Channel Signaling 7 (CCS7) link interface unit (LIU7) external routing functionality. The command forces the CCS7 digital trunk controllers (DTC) to use message transfer part (MTP) routing tables. The DTCs use the MTP table information to route integrated services digital network (ISDN) user part (ISUP) messages.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TL12

Feature 59009996 (ITU SSP Link Expansion to 180 Channelized MLIU-based Links) creates a new response when you try to deactivate LIU7 external routing and there are more than 108 links in table C7LINK and DTCs exist in table LTCINV.

Limitations and restrictions

The deactivate command has no limits or restrictions.

Syntax

The deactivate command syntax is as follows:

```
deactivate
```

Command deactivate has no parameter or variables.

Example

The following table provides an example of the deactivate command.

Command example (Sheet 1 of 2)

Command:	>deactivate
Description of task:	Deactivate the LIU7 external routing functionality.

deactivate (continued)

Command example (Sheet 2 of 2)

MAP response:	External Routing deactivated.
Explanation:	External routing deactivates. CCS7 DTCs route ISUP messages.

Responses

The following table explains possible responses to the deactivate command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>deactivate
MAP response:	External Routing is already inactive in the office. Do you want to re-deactivate External Routing? Please confirm ('YES', 'Y', 'NO', or 'N'):
Meaning:	LIU7 external routing is already inactive. The CCS7 DTCs route ISUP messages.
Actions:	If you want to deactivate external routing again, enter y (yes). If you do not want to deactivate external routing again, enter n (no).
Command:	>deactivate
MAP response:	The MTP tables must be added to the CCS7 DTCs before External Routing can be deactivated.
Meaning:	LIU7 external routing is not deactivated.
Actions:	Use the download_mtp command to add the MTP tables to the CCS7 DTCs.
Command:	>deactivate
MAP response:	There are expanded routesets in the office. External Routing cannot be deactivated until all the expanded routesets have been removed.
Meaning:	The command failed because there are expanded routesets in the office.
Actions:	Remove all expanded routesets and enter the command again.
Command:	>deactivate
MAP response:	There are CCS7 DTCs in transient states.
Meaning:	The command failed because there are CCS7 DTCs in transient states.
Actions:	Use the query_ext_routing command to list which DTCs are in a transient state.

deactivate (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Command:	>deactivate
MAP response:	External Routing activation was not distributed successfully to all nodes.
Meaning:	LIU7 external routing is not deactivated.
Actions:	Use the activate command to activate LIU7 external routing or wait for a DDM audit to correct the data. Examine the DDM logs for any problems.
Command:	>deactivate
MAP response:	Can not deactivate LIU7 external routing because there are greater than 108 links in C7LINK and DTC datafilled in table LTCINV.
Meaning:	You cannot deactivate LIU7 external routing when there are more than 108 links entered in table C7LINK and DTCs exist in table LTCINV.
Actions:	Reduce the number of links to 108 or less, or remove DTCs from table LTCINV. Enter command deactivate again.

download_mtp

Type

The download_mtp command is a nonmenu command.

Target

The command target for the download_mtp command is ALL.

Description

Use the download_mtp command to download message transfer part (MTP) databases to the Common Channel Signaling 7 (CCS7) digital trunk controllers (DTC). This action allows the deactivation of the CCS7 link interface unit (LIU7) external routing.

Release history

TL12

Feature 59009996 (ITU SSP Link Expansion to 180 Channelized MLIU-based Links) introduces a new response to this command when there are more than 108 links in table C7LINK and DTCs exist in table LTCINV.

Limitations and restrictions

The download_mtp command has no limits or restrictions.

Syntax

The download_mtp command syntax is as follows:

```
download_mtp
```

Command download_mtp has no parameters or variables.

Example

The following table provides an example of the download_mtp command.

Command example

Command:	>download_mtp
Description of task:	Download the MTP databases to the DTCs.
MAP response:	MTP Databases are being downloaded. The procedure will be complete when the CCS7 DTC are stable.
Explanation:	The system is sending the MTP database updates to the DTC routing databases.

download_mtp (continued)**Responses**

The following table explains possible responses to the `download_mtp` command.

MAP responses with associated meanings and actions (Sheet 1 of 3)

Command:	>download_mtp
MAP response:	DDM is in a transient state. Please enter the command when DDM is stable. Use the <code>QUERY_EXT_ROUTING</code> command to determine if DDM is stable. No action taken.
Meaning:	The DTC, LIU7, or routeset was in a transient state when this command was invoked.
Actions:	Check the logs to identify the transient component and use the <code>query_ext_routing</code> command to check if DDM is stable.
Command:	>download_mtp
MAP response:	There are expanded routesets in the office. Use the <code>C7RTR query_exp_rtesets</code> command to find which routesets must be deleted before the MTP databases can be downloaded. No action taken.
Meaning:	There are routesets datafilled with a tuple index greater than 255 (expanded). These tuples must be deleted or moved to a lower index before MTP can be downloaded to DTCs.
Actions:	Use the <code>query_exp_rtesets</code> command to list the expanded routesets; delete them before executing the <code>download_mtp</code> command again.
Command:	>download_mtp
MAP response:	Routing tables cannot be downloaded with 8-bit SLS load balancing active and non-ANSI network datafilled in table <code>C7NETWRK</code> . Please deactivate 8-bit SLS load balancing or remove the non-ANSI network before downloading routing tables.
Meaning:	The 8-bit signaling link selection (SLS) Load Balancing option is activated and non-ANSI network is datafilled in table <code>C7NETWRK</code> . Routing tables could not be downloaded.
Actions:	Deactivate the 8-bit SLS Load Balancing option or remove the non-ANSI network before executing the <code>download_mtp</code> command again.
Command:	>download_mtp

download_mtp (continued)

MAP responses with associated meanings and actions (Sheet 2 of 3)

MAP response:	Routing tables cannot be downloaded with 8-bit SLS load balancing active and a PDTC peripheral datafilled in table LTCINV. Please deactivate 8-bit SLS load balancing or remove the PDTC peripherals before downloading router tables.
Meaning:	The 8-bit SLS Load Balancing option is active and a PCM30 digital trunk controller (PDTC) is datafilled in table LTCINV. Routing tables could not be downloaded.
Actions:	Deactivate the 8-bit SLS Load Balancing option or remove the PDTCs from table LTCINV before executing the download_mtp command again.
Command:	>download_mtp
MAP response:	Download of all the tables was not successful. Download the MTP tables again and check for LOGs/SWERS.
Meaning:	The command failed for an unspecified reason.
Actions:	Repeat the command. Check for logs and software errors.
Command:	>download_mtp
MAP response:	The MTP databases are already downloaded to the CCS7 DTCs. Do you want to download them again [y/n]?
Meaning:	The MTP data is already downloaded.
Actions:	Download the tables again, if any problems occurred during the original download.
Command:	>download_mtp
MAP response:	There are currently more than <number> dtcs with optattr = CCS7. Please remove the appropriate number of CCS7 DTCs. No action taken.
Meaning:	The number of DTCs supported during the MTP download is less than the number of datafilled DTCs.
Actions:	Remove DTCs from table LTCINV until the maximum number of supported DTCs is equal to the number of datafilled DTCs.
Command:	>download_mtp
MAP response:	The MTP databases have not been downloaded successfully. Check for DDM logs and/or attempt the download again.

download_mtp (end)

MAP responses with associated meanings and actions (Sheet 3 of 3)

Meaning:	The process was not successful.
Actions:	Check logs, software errors, and traps for any unusual events.
Command:	>download_mtp
MAP response:	Can not download MTP databases because there are greater than 108 links in C7LINK and DTC datafilled in table LTCINV. Command WAS NOT Processed.
Meaning:	The command failed because there are more than 108 links in table C7LINK and DTCs exist in table LTCINV.
Actions:	Reduce the number of links to 108 or less, or remove DTCs from table LTCINV. Enter the command again.

7 CM level commands

This chapter provides an overview of the computing module (CM) level. This chapter also provides detailed information on new or changed commands in the CM level. The following table alphabetically lists the commands available at the CM level, as well as the page number for each command.

Table 7-1 CM level commands

Command
mtctst
rextst

CM level

Description

Use the CM level of the MAP to access commands that control and display the status of the paired central processing units (CPU) that comprise the CM.

How to access the CM level

Access the CM level from the CI environment:

```
>mapci;mtc;cm
```

How to return to the C

Return to the CI environment:

```
> quit mapci
```

MAP display

The following figure shows an example of the MAP display of the CM level.

Figure 7-1 Example of a MAP display of the CM level

CM	MS	IOD	NET	PM	CCS	LNS	TRKS	EXT	APPL
CM FLT	.	.	.	.	.	.	.	.	.
M									
CM	CM	Sync	Act	CPU0	CPU1	Jam	Memory	CMMnt	MC PMC
0 Quit	0	no	cpu 1	flt	.		flt	LOWSpr	cbsy tbl
2 CMMnt									
3 Memory	MTC:								
4 MC	CM:								
5 PMC									
6 Tst									
7									
8									
9									
10									
11									
12 MtcTst									
13 SwAct									
14 Sync									
15 DpSync									
16									
17									
18 Locate_									

mtctst

Type

The mtctst command is a menu listed command.

Target

The command target for the mtctst is SUPERNODE.

Description

Use the mtctst command to detect faults on new hardware or hardware that may have faults. The mtctst command performs CPU class and memory (MEM) class tests on an inactive CPU.

Release history

This section identifies if the command is new or changed, as well as the applicable software release.

BASE13

The mtctst command is new for BASE13.

Limitations and restrictions

The following limits and restrictions apply to the mtctst command.

- The mtctst command executes only CPU class and MEM class tests on an inactive CPU.
- The mtctst command does not execute a SWACT.
- The CPU's synchronization status changes automatically during the test. At the end of the test, the synchronization status of the CPU returns to its initial status.

Syntax

The mtctst command syntax is as follows:

```
mtctst  [<Class>           {CPU,
                             MEM}]
        [<Error action>    {STOP,
                             CONTINUE}]
        [<Alarm action>    {CLRREXALARM}]
        [<Options>...      {NOWAIT,
                             NOPROMPT,
                             VERBOSE}]
        [<RExTst terminate> {TERMINATE}]
```

mtctst (continued)

The following table describes the parameters and variables of the mtctst command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
class	cpu, mem	This parameter directs the system to run the CPU or MEM class tests. Enter MEM class to test both the CPU and MEM classes. Enter CPU class to run the CPU class test. The default class is CPU.
error action	stop, continue	This parameter defines the action the system takes when an error occurs. Enter stop, to stop the test when an error occurs. Enter continue to continue the test when an error occurs.
alarm action	clrrexalarm	This parameter clears previous REx alarms raised by CPU or mem faults.
options	nowait, noprompt, verbose	The nowait parameter directs the system to allow use of the MAP for other functions while the test is running. The noprompt parameter directs the system to suppress warning prompts. The verbose prompt directs the system to report the name of each completed sub test.
mtctst terminate	terminate	This parameter directs the system to terminate the test.

Example

The following table provides an example of the mtctst command.

Command example (Sheet 1 of 2)

Command:	mtctst cpu clrrexalarm
Description of task:	The command mtctst will run CPU tests and clear the previous 'rex' alarm. The system will report the name of each completed sub test.

mtctst (continued)**Command example (Sheet 2 of 2)**

MAP response:	The 'rex' alarm was raised due to REXTEST MEM test failure. MTCTST MEM CLRREXALARM must be run to clear the rex alarm. Do you want to continue with MTCTST CPU? Please confirm ("YES", "Y", "NO", "N"): N mtctst mem clrrexalarm maintenance action submitted mtctst passed.
Explanation:	The test passes and the previous 'rex' alarm is cleared.

Responses

The following table explains possible responses to the mtctst command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	MTCTST TERMINATE
MAP response:	Termination timed out.
Meaning:	MTCTST termination failed 20 minutes after the request for MTCTST TERMINATE
Actions:	MTCTST is not terminated. Contact the next level of support.
Command:	MTCTST
MAP response:	Maintenance action not performed, resources in use.
Meaning:	MTCTST action is not performed due to the RMS resource in use.
Actions:	Repeat action. If unsuccessful, contact next level of support.
Command:	MTCTST
MAP response:	MTCTST failed. Environment error has occurred.
Meaning:	MTCTST failed because an environment error occurred.
Actions:	Contact next level of support.
Command:	MTCTST
MAP response:	MTCTST failed. Waiting for RMS reply timed out.
Meaning:	The MTCTST failed due to waiting for RMS reply.
Actions:	Contact next level of support.

mtctst (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Command:	MTCTST
MAP response:	MTCTST aborted. Detected a mismatch or SWACT during CM MTCTST. Please check logs.
Meaning:	MTCTST aborted due to a mismatch or SWACT.
Actions:	Check logs and reason for test failure. Contact next level of support.
Command:	MTCTST
MAP response:	MTCTST failed. Sending of RMS request failed.
Meaning:	The MTCTST failed due to RMS request failure.
Actions:	Contact next level of support.
Command:	MTCTST
MAP response:	MTCTST: Inactive FOOTPRINT transfer in progress... MTCTST: Inactive FOOTPRINT transfer passed. MTCTST failed. Test name: <test name> Site Flr Bay_id Shf Description Slot EqPEC HOST 00 A00 DPCC:00 18 RTIF:00:0:0 9X26EA BACK HOST 00 A00 DPCC:00 18 CPU:00:0:0 9X10BA FRNT
Meaning:	The system indicates that MTCTST failed, which subtest failed and the suspect cardlist.
Actions:	Contact the next level of support.

rextst

Type

The rextst command is a menu unlisted command.

Target

The command target for the rextst is SuperNode.

Description

The rextst executes a test to identify latent hardware failures.

Note: Use the MTCTST command to execute CPU and memory class tests on an inactive CPU. The MTCTST (manual maintenance test) detects faults on new hardware installation and hardware that may have faults. Refer to “MTCTST” in this document.

Release history

This section identifies if the command is new or changed, as well as the applicable software release.

BASE13

The rextst changes in BASE13.

Limitations and restrictions

The rextst command has no limits or restrictions.

Syntax

The rextst command syntax is as follows:

```
rextst    [<Class>                {CPU, MEM, LINK, PMC, FULL, BASE}]
          [<Error action>          {STOP, CONTINUE}]
          [<Success action>        {RESETHITS}]
          [<Options>...           {NOWAIT,
                                   NOPROMPT,
                                   RESETCOUNTS,
                                   VERBOSE}]
          [<RExTst terminate>     {TERMINATE}]
```

rextst (continued)

The following table describes the parameters and variables of the rextst command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
class	cpu, mem. link, pmc, full, base	Enter CPU class to test the CPU class. Enter MEM class to run the MEM class test. Enter link to run link tests Enter PMC to run only the peripheral message controller (PMC) test. Enter full to run the full test and include activity switches. Enter base to test the BASE class.
error action	stop, continue	This parameter defines the action the system takes when an error occurs. Enter stop, to stop the test when an error occurs. Enter continue to continue the test when an error occurs.
success action	resethits	This parameter directs the system to reset link hit counts.
options	nowait, noprompt, resetcounts, verbose	The nowait parameter directs the system to allow use of the MAP for other functions while the test is running. The noprompt parameter directs the system to suppress warning prompts. The resetcounts parameter directs the system to reset all counts except the cancelled REx fault counts. The verbose prompt directs the system to report the name of each completed sub test.
mtctst terminate	terminate	This parameter directs the system to terminate the test.

rextst (continued)**Example**

The following table provides an example of the rextst command.

Command example

Command:	REXTST FULL
Description of task:	REXTST runs full test.
MAP response:	The 'rex' alarm was raised due to REXTST PMC test failure. It is recommended to run REXTST PMC to clear the 'rex' alarm. Do you want to continue with REXTST FULL? Please confirm ("YES", "Y", "NO", or "N"): N REXTST PMC Caution: CM will drop sync when REXtst is running. Please confirm ("YES", "Y", "NO", or "N"): Y Maintenance action submitted.. .. REXtst passed.
Explanation:	'Rex' alarm was raised due to REXTST PMC failure. Enter N to stop REXTST FULL. Run REXTST PMC to clear 'rex' alarm.

Responses

The following table explains possible responses to the rextst command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	REXTST
MAP response:	Aborted. CPU is jammed inactive.
Meaning:	The REX test cannot run because the mate CPU is jammed inactive. The CM must be able to switch activity for the REX test to be run.
Command:	REXTST
MAP response:	REX test did not run - resources in use.
Meaning:	Another process is using the resources required to run the test specified. The test is cpu, mem, mc, ssc, or pmc.
Actions:	Check logs and status displays for faults that may prevent the test from running.
Command:	REXTST

MAP responses with associated meanings and actions (Sheet 2 of 2)

MAP response:	Warning: Running of a REx test is not recommended at this time due to exceeded error thresholds. Use the QUERYCM RExSchd command for more details concerning the errors which have occurred.
Meaning:	One or more counts of stability-affecting error conditions has exceeded a preset threshold.
Actions:	Wait for fault counts to fall below the stability thresholds and retry the rextst command. Use the rextst resetcounts command string to clear the counts if the error condition is known and has been corrected.
Command:	REXTST
MAP response:	It is recommended to run MTCTST <CPU, MEM>. Do you want to continue with REXTST <CPU, MEM>? Please confirm ("YES", "Y", "NO", or "N"):
Meaning:	It is recommended to run a MTCTST.
Actions:	Enter Y to continue with REXTST or N to stop the action.
Command:	REXTST FULL
MAP response:	Using manual REx test is not recommended. Use MTCTST instead. Do you want to continue with REXTST <BASE, FULL>? Please confirm ("YES", "Y", "NO", or "N"):
Meaning:	This message is displayed when REXTEST FULL or REXTST BASE is entered and no alarms are present. It is recommended to run the MTCTST.
Actions:	Enter Y to continue test or N to stop the action.

8 COMPRSCI level commands

This chapter provides an overview of the COMPRSCI level. This chapter also provides detailed information on new or changed commands in the COMPRSCI level.

The following table alphabetically lists the commands available at the COMPRSCI level.

Table 8-1

Command
compress
help
quit

Description

The COMPRSCI tool requires the PLM Packaging - LOC00025 LINEATTR Restructuring Package.

To prevent service order failures, update the MARCH RPM tables to reflect the proposed changes to the LINEATTR table before using the COMPRSCI tool.

The COMPRSCI level requires password protection through the TOOLSUP utility.

The COMPRSCI tool requires that the OFCVAR table XLAPLAN_RATEAREA_SERVORD_ENABLED (XRSE) parameter is set to MANDATORY_PROMPTS.

Use the COMPRSCI tool to delete multiple instances of the same tuple from the LINEATTR table.

How to access the COMPRSCI level

Access the COMPRSCI level from the CI environment after password verification through the TOOLSUP utility:

```
>comprsci
```

How to return to the CI

Return to the CI environment:

```
>quit
```

MAP display

The following figure shows an example of the MAP display for access to the TOOLSUP utility and the COMPRSCI level.

Figure 8-1 Example of a MAP display for access to the COMPRSCI level

```
CI:
>toolsup
TOOLSUP - Tool Supervisor

Type HELP to display available commands

TOOLSUP:
>help
TOOLS      Display a list of available tools
RESOURCES  Display a list of available tool resources
STATUS     Query the current status of a tool or resource
HISTORY    Provide a report of the recent actions of a
           tool or resource
ACCESS     ON, OFF or STATUS of a password controlled tool
RESET      Reset a tool or resource being used by a hung CI
HELP       Display this list
QUIT       Leave TOOLSUP

>access on comprsci
Enter Password:
>comprsci %% <enter the password generated by the ToolSup utility>
COMPRSCI permitted

COMPRSCI access will expire 48 hours from now.

          ** WARNING **
You have permitted access to command(s) that require
skilled and knowledgeable users. Proper use is required
to avoid possible service degradations. Please ensure
that only fully trained and qualified personnel
proceed.
TOOLSUP:
>quit
CI:
>comprsci
MACHINES NOT IN SYNC - USE OF COMPRSCI NOT RECOMMENDED
JOURNAL FILE UNAVAILABLE - USE OF COMPRSCI NOT RECOMMENDED
COMPRSCI
>
```

compress

Type

The compress command is a menu listed command.

Target

The command target for the compress command is ALL.

Description

The compress command removes duplicate tuple occurrences, owned by the same owner, from the LINEATTR table. Command execution deletes all duplicate tuples, or duplicate tuples specified by an associated LINEATTR index.

all option

The all option removes all duplicate tuples in the LINEATTR table. The first line attribute index (LNATTIDX) that contains a duplicated tuple remains. The compress command removes all other LNATTIDX tuples from the table that match the duplicate tuple first found. For example, the compress command uses the all option. LNATTIDX tuples 0 and 1 appear in the LINEATTR table as:

```
0 1MR NONE NT 10 NILSFC 0 NIL NIL 00
```

```
1 CCF NONE NT 10 NILSFC 0 NIL NIL 00
```

LNATTIDX tuples 6 and 9 contain the same tuple as LNATTIDX 0, and LNATTIDX 5 contains the same tuple as LNATTIDX 1. The compress command removes LNATTIDX tuples 5, 6, and 9 from the table but LNATTIDX 0 and 1 remain in the LINEATTR table.

key option

The key option removes all tuples that match the tuple referenced in the LNATTIDX specified in the compress command. For example, the compress command specifies key 2. LNATTIDX 2 appears in the LINEATTR table as:

```
2 1FR NONE NT 10 NILSFC 0 NIL NIL 00
```

LNATTIDXs 8 and 14 contain the identical tuple (1FR NONE NT 10 NILSFC 0 NIL NIL 00). The compress command updates the references to LNATTIDX tuples 8 and 14 to reference only LNATTIDX tuple 2.

Release history

This section identifies if the command is new or changed, and the applicable software release.

compress (continued)

CCM14

The LINEATTR Compression Tool feature (59017776) introduced the compress command.

Limitations and restrictions

The following limits and restrictions apply to the compress command:

- The compress command requires PLM Packaging - LOC00025 LINEATTR Restructuring Package.
- The compress command requires that the non-DMS MARCH operating system RPM tables include the LINEATTR, XLAPLAN, and RATEAREA tables.
- The compress command requires the OFCVAR table XLAPLAN_RATEAREA_SERVORD_ENABLED parameter set to MANDATORY_PROMPTS.
- The LINEATTR Compression Tool requires password protection through the TOOLSUP utility to restrict compress command usage to qualified personnel only.
- The compress command only deletes tuples owned by the same owner, defined in the DATAOWNER table.
- The LINEATTR Compression Tool has single user access restriction.

Syntax

The compress command syntax is as follows:

```
compress    all  
            key <lineattr_key1>... <lineattr_key14> $
```

Note: The key option accepts a maximum of 14 LINEATTR keys.

compress (continued)

The following table describes the parameters and variables of the compress command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
ALL	N/A	This parameter uses a top to bottom method to compare and remove all duplicate tuples in the LINEATTR table.
KEY	<lineattr_key>	This parameter provides a method to define a specific tuple, or tuples, for duplication removal in the LINEATTR table.
<lineattr_key>	alphanumeric characters	This variable represents 1 to 14 alphanumeric keys defined in the LINEATTR table.
\$	N/A	This notation indicates the key list completion.

Example

The following table provides an example of the compress command.

Command example

Command:	>compress key 2 5 8 \$
Description of task:	Eliminate all keys in the LINEATTR table that have tuples identical to the tuples associated with keys 2, 5, and 8.
MAP response:	<pre>command is : COMPRESS KEY 2 5 8 \$ Do you still want to continue? Please confirm ("YES", "Y", "NO", or "N") : >y Compression of table LINEATTR in progress. Compression to LINEATTR key 2 is complete. Compression to LINEATTR key 5 is complete. Compression to LINEATTR key 8 is complete. COMPRESS command execution completed successfully.</pre>
Explanation:	The compress command executed without errors.

compress (continued)**Responses**

The following table explains possible responses to the compress command.

MAP responses with associated meanings and actions (Sheet 1 of 3)

Command:	>comprsci
MAP response:	COMPRSCI access is restricted
Meaning:	This response indicates that an attempt was made to enter the COMPRSCI directory without using the TOOLSUP utility.
Actions:	Enter the TOOLSUP utility using a valid non-TAS password.
Command:	>comprsci
MAP response:	WARNING: XLAPLAN_RATEAREA_SERVORD_ENABLED is not set to MANDATORY_PROMPTS. COMPRESS command is disabled.
Meaning:	This response indicates that the XRSE parameter in the OFCVAR table is not set to MANDATORY_PROMPTS.
Actions:	Use the XRSECHG CI tool to set the XRSE parameter in the OFCVAR table to MANDATORY_PROMPTS.
Command:	>comprsci
MAP response:	ERROR: The COMPRESS command can only be used when XRSE is set to MANDATORY_PROMPTS
Meaning:	This response indicates that the XRSE parameter in the OFCVAR table is not set to MANDATORY_PROMPTS.
Actions:	Use the XRSECHG CI tool to set the XRSE parameter in the OFCVAR table to MANDATORY_PROMPTS.
Command:	>compress key LKx \$
MAP response:	WARNING: Tuple LKx does not exist in table LINEATTR.
Meaning:	This response indicates that a specified key does not exist in the LINEATTR table.
Actions:	Check the key, or keys, entered for spelling errors.
Command:	>compress key LK1 LK2 LK3 LK4 LK5 LK6 LK7 LK8 LK9 LK10 LK11 LK12 LK13 LK14 LK15 \$
MAP response:	ERROR: Too many LINEATTR keys specified.

compress (continued)

MAP responses with associated meanings and actions (Sheet 2 of 3)

Meaning:	This response indicates that the number of LINEATTR table keys, used with the compress command key option, exceeds 14.
Actions:	Re-enter the command without exceeding the maximum 14 LINEATTR table keys.
Command:	>compress key LK1 LK2 LK3 LK4 LK5 \$
MAP response:	WARNING: Two or more keys reference identical tuples, proceeding will preserve the first key specified. Please confirm ["Yes", "Y", "No", "N"]
Meaning:	This response indicates that two or more specified keys reference identical tuples in the LINEATTR table.
Actions:	Check the entered key, or keys, for spelling errors.
Command:	>compress key LKx \$
MAP response:	WARNING: Compression of table LINEATTR in progress.
Meaning:	This response appears during a valid LINEATTR table compression.
Actions:	No action is required.
Command:	>compress key LKx \$
MAP response:	Compression to LINEATTR key LKx is complete.
Meaning:	This response indicates that all keys with a corresponding tuple identical to key LKx have been replaced with key LKx in the LINEATTR table. Tuples in other tables that reference the tuples removed from the LINEATTR table have also been replaced with key LKx.
Actions:	No action is required.
Command:	>compress key LKx \$
MAP response:	WARNING: LKx Could not be removed from table LINEATTR.
Meaning:	This response indicates that a tuple in a table affected by the LINEATTR key compression has been modified after that tuple has been marked for deletion but, before the deletion occurred. That tuple/key cannot be removed from the LINEATTR table.
Actions:	The compression process continues.
Command:	>compress key LKx \$

compress (end)

MAP responses with associated meanings and actions (Sheet 3 of 3)

MAP response:	ERROR: Several tuples could not be removed from table LINEATTR.
Meaning:	This response indicates that a second tuple in a table affected by the LINEATTR key compression was modified after that tuple was marked for deletion, but before the deletion occurred. Both tuple/keys cannot be removed from the LINEATTR table.
Actions:	The compression process ends and the command prompt appears.
Command:	>compress key LKx \$
MAP response:	COMPRESS command execution completed successfully.
Meaning:	This response indicates that the COMPRESS command executed without errors.
Actions:	No action is required.

help

Type

The help command is a nonmenu command.

Target

The command target for the help command is ALL.

Description

The COMPRSCI directory help command displays a list of available commands in the COMPRSCI directory.

Release history

This section identifies if the command is new or changed, and the applicable software release.

CCM14

The LINEATTR Compression Tool feature (59017776) introduced the help command.

Limitations and restrictions

The help command has no limits or restrictions.

Syntax

The help command syntax is as follows:

help

help <COMPRSCI level command>

q <COMPRSCI level command>

Example

The following table provides an example of the help command.

Command example (Sheet 1 of 2)

Command:	> help
Description of task:	The help command provides a list of commands for the COMPRSCI level.

Command example (Sheet 2 of 2)

MAP response:	COMPRSCI TOOL - Valid Commands: ----- COMPRESS - Compress identical tuples in table LINEATTR HELP - Help on COMPRSCI Tool sub-commands QUIT - Quit COMPRSCI Tool Type "Q <command>" to see a description of a given sub-command
Explanation:	The help command MAP response lists the commands and corresponding explanations for the COMPRSCI level directory.

Responses

The help command displays information specific to a command and does not generate any system responses.

quit

Type

The quit command is a nonmenu listed command.

Target

The command target for the quit command is ALL.

Description

The quit command exits the COMPRSCI CI level.

Release history

This section identifies if the command is new or changed, and the applicable software release.

CCM14

The LINEATTR Compression Tool feature (59017776) introduced the quit command.

Limitations and restrictions

The quit command has no limits or restrictions.

Syntax

The quit command syntax is as follows:

```
quit
```

Example

The following table provides an example of the quit command.

Command example

Command:	>quit
Description of task:	This command exits from the COMPRSCI command level.
MAP response:	CI :
Explanation:	The command returns to the previous level.

Responses

There is no change to the quit command responses.

FPSDIR level commands

This chapter provides an overview of the FPSDIR level. The following table lists the commands available at the FPSDIR level.

Command
QFPS
RFPS
LFPS
HELP

Description

Use the FPSDIR level of the CI to access commands for managing FPS subscribers.

How to access the FPSDIR level

Access the FPSDIR level from the CI environment:

> **fps**

How to return to the CI

Return to the CI environment:

> **quit**

QFPS

Type

The QFPS command is non-menu.

Target

The command target for the QFPS command is BRISC and XA-Core.

Description

This command is used to query the FPS counters of a specified subscriber or all subscribers. It has the following options:

- DN
- ALL
- SUMMARY
- UNUSEDFOR
- ZERO
- HELP

Release history**ISN06 (TDM)**

Feature 89007209 introduced the enhanced Fixed Price Service and extensions to the FPSDIR level commands.

Limitations and restrictions

The QFPS command has no limitations or restrictions.

Syntax

The QFPS command syntax is as follows:

```
QFPS [{ DN <Directory Number>,  
        ALL,  
        SUMMARY,  
        UNUSEDFOR <0 to 365>  
        ZERO,  
        HELP}]
```


QFPS (continued)

The following table describes the command parameters and variables.

Command parameter and variable descriptions

Parameters and variables	Value	Description
DN	<Directory Number>	Displays the: • Directory number • MOGID of specified line • FPS limit of specified line • FPS counter of specified line
ALL		Displays the: • Directory number of each line • MOGID of each line • FPS limit of each line • FPS counter of each line
SUMMARY		Displays the: • Value of the FPS_VARIANT office parameter • Value of FPS_PRE_ANNOUNCE_LIMIT office parameter • Count of used and recycled FPS subscribers • Number of FPS subscribers defined with FPS1 • Number of FPS subscribers defined with FPS2 • Number of FPS subscribers with zero units • Number of FPS subscribers with fewer than FPS_PRE_ANNOUNCE_LIMIT units • Number of FPS subscribers with more units than their predefined limit (FPS1 or FPS2) Note: The value of FPS1 is set by the FPS_CREDIT_LIMIT_1 office parameter and FPS2 is set by the FPS_CREDIT_LIMIT_2 office parameter.

QFPS (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
UNUSEDFOR	<0 to 365>	Where <0 to 365> gives the number of days that the credit has remained unused. For each line not used for the specified number of days, displays the: • Directory number • MOGID • FPS limit • FPS counter
ZERO		For each line with zero units remaining, displays the: • Directory number • MOGID • FPS limit • FPS counter

Examples

The following tables provide examples of the QFPS command.

QFPS DN command example

Command:	> QFPS DN 7835403
Description of task:	Query the specified FPS subscriber's data.
MAP response:	DN: 7835403 MOG_ID: MOG_2 FPS1 176
Explanation	Line 7835403 is allocated to MOG_2 and has an FPS1 threshold. The current count of units available are 176.

QFPS ALL command example

Command:	> QFPS ALL
Description of task:	Query all FPS subscriber's data.

QFPS (continued)

QFPS ALL command example

MAP response:	WARNING: Query of all FPS counters may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"): >y DN: 7835403 MOG_ID: MOG_2 FPS1 13 DN: 7835404 MOG_ID: \$ FPS2 256 DN: 7835405 MOG_ID: MOG_1 FPS2 0 DN: 7835406 MOG_ID: MOG_3 FPS2 10 DN: 7835407 MOG_ID: MOG_3 FPS2 0 =====
Explanation	TOTAL: 5 FPS subscriber(s) found Each entry gives the directory number, the MOG_ID and FPS threshold for that line, followed by the current count of units available.

QFPS SUMMARY command example

Command:	> QFPS SUMMARY
Description of task:	Query all the FPS subscribers and produce a summary report.

QFPS (continued)

QFPS SUMMARY command example

MAP response:	WARNING: Query of all FPS counters may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"): >y FPS VARIANT: STANDARD PRE_ANNOUNCEMENT_LIMIT: 15 FPS SUBSCRIBERS USED:5 RECYCLE: 7 FPS SUBSCRIBERS DEFINED WITH FPS1 : 1 FPS SUBSCRIBERS DEFINED WITH FPS2 : 4 FPS SUBSCRIBERS WITH ZERO COUNT : 2 FPS SUBSCRIBERS WITH EQUAL AND LESS THAN PRE_ANNOUNCE LIMIT : 2 FPS SUBSCRIBERS WITH MORE THAN PREDEFINED LIMIT: 0
Explanation:	FPS_VARIANT, FPS_PRE_ANNOUNCE_LIMIT, FPS1 (FPS_CREDIT_LIMIT_1), and FPS2 (FPS_CREDIT_LIMIT_2) are office parameters defining the FPS service.

QFPS UNUSEDFOR command example

Command:	QFPS UNUSEDFOR 30
Description of task:	Query all FPS subscribers have not used their credit for the specified number of days

QFPS (continued)

QFPS UNUSEDFOR command example

MAP response:	WARNING: Query of all FPS counters may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"): >y Listed FPS subscriber(s) is/are not used for 30 days. DN: 7835402 MOG_ID: MOG_1 FPS2 5 DN: 7835409 MOG_ID: MOG_2 FPS2 123 =====
Explanation:	TOTAL: 2 FPS subscriber(s) found The report entries are for all the subscribers that have not used their credit for the specified number of days. The entries are formatted in the same way as the other QFPS options.

QFPS ZERO command example

Command:	> QFPS ZERO
Description of task:	Query all FPS subscribers with a zero credit count.
MAP response:	WARNING: Query of all FPS counters with zero count may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"): >y DN: 7835405 MOG_ID: MOG_1 FPS2 0 DN: 7835407 MOG_ID: MOG_3 FPS2 0 =====
Explanation:	TOTAL: 2 FPS subscriber(s) found The report entries are for all the subscribers that have a zero credit count. The entries are formatted in the same way as the other QFPS options.

QFPS HELP command example

Command:	> QFPS HELP
Description of task:	Request help on the QFPS command and its parameters.

QFPS (continued)**QFPS HELP command example**

MAP response:	DN	- Query entered lines DN, mog_id, FPS limit and FPS counter
	ALL	-Query all FPS subscribers DNS, mog_ids, FPS limits and FPS counters.
	SUMMARY	- Print a report about FPS subscribers.
	UNUSEDFOR	-Query all FPS subscribers that are unused for entered days
	ZERO	- Query all FPS subscribers that has zero charge count
	HELP	- Lists available options
Explanation:	Basic help.	

Responses

The following table describes the MAP responses.

QFPS SUMMARY command responses

MAP output	Meaning and action
WARNING: Query of all FPS subscribers and prepare summary may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"):	Meaning: Because all the FPS subscribers are checked to prepare the summary report it takes an amount of time. Action: Select Y to continue or N to halt the process.

QFPS ZERO command responses

MAP output	Meaning and action
WARNING: Query of all FPS subscribers and prepare summary may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"):	Meaning: Because all the FPS subscribers are checked to prepare the summary report it takes an amount of time. Action: Select Y to continue or N to halt the process.

QFPS (end)

QFPS UNUSEDFOR command responses

MAP output	Meaning and action
WARNING: Query of all FPS subscribers and prepare summary may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"):	
	Meaning: Because all the FPS subscribers are checked to prepare the summary report it takes an amount of time.
	Action: Select Y to continue or N to halt the process.

RFPS

Type

The RFPS command is non-menu.

Target

The command target for the RFPS command is BRISC and XA-Core.

Description

This command is used to reset all FPS counters to their initial values or zero. Their initial values are defined by FPS1 (FPS_CREDIT_LIMIT_1 office parameter) or FPS2 (FPS_CREDIT_LIMIT_2 office parameter).

Release history**ISN06 (TDM)**

Feature 89007209 introduced the enhanced Fixed Price Service and extensions to the FPSDIR level commands.

Limitations and restrictions

The RFPS command has no limitations or restrictions.

Syntax

The RFPS command syntax is as follows:

RFPS [{INIT,ZERO}]

The following table describes the command parameters and variables.

Command parameter and variable descriptions

Parameters and variables	Value	Description
INIT		Used to set all FPS subscriber counters to their predefined initial value (FPS1 or FPS2).
ZERO		Used to set all FPS subscriber counters to zero.

RFPS (continued)

Examples

The following tables provide examples of the RFPS command.

RFPS INIT command example

Command:	> RFPS INIT
Description of task:	Reset all FPS counters to their initial values (FPS1 or FPS2).
MAP response:	WARNING: All FPS counters will be reset to their initial limits (FPS1/FPS2). Please confirm ("YES", "Y", "NO", or "N"): >Y Resetting all FPS counters with their initial limits... TOTAL: 2 FPS counter(s) reset
Explanation	All FPS counters are reset to FPS1 or FPS2 depending on their definition.

RFPS ZERO command example

Command:	> RFPS ZERO
Description of task:	Set all FPS counters to zero.
MAP response:	WARNING: All FPS counters will be reset to zero. Please confirm ("YES", "Y", "NO", or "N"): >Y Resetting all FPS counters with 0... TOTAL: 2 FPS counter(s) reset
Explanation	All FPS counters are set to zero.

Responses

The following table describes the MAP responses.

RFPS INIT command responses

MAP output	Meaning and action
Warning: RFPS access is restricted.	Meaning: RFPS command is protected using the TOOLSUP - Tool Supervisor utility. Action: You must use the TOOLSUP utility to use the RFPS command.

RFPS (end)

RFPS INIT command responses

MAP output	Meaning and action
WARNING: All FPS counters will be reset to their initial limits (FPS1/FPS2) Please confirm ("YES", "Y", "NO", or "N"):	
	Meaning: All FPS subscribers will be loaded with their predefined limits so current counts will be lost.
	Action: Type Y to continue or N to halt.

RFPS ZERO command responses

MAP output	Meaning and action
WARNING: All FPS counters will be reset to zero Please confirm ("YES", "Y", "NO", or "N"):	
	Meaning: All FPS subscribers will be loaded with zero so current counts will be lost.
	Action: Select Y to continue or N to halt the process.

LFPS

Type

The LFPS command is non-menu.

Target

The command target for the LFPS command is BRISC and XA-Core.

Description

The Load Fixed Price Service (LFPS) sublevel is used to add credit units to the subscriber's counter.

This command accesses the LFPSDIR sublevel below the FPSDIR level. It requires a valid password. The LFPS sublevel is only available for enhanced FPS (office parameter FPS_VARIANT=ENHANCED).

Release history**ISN06 (TDM)**

Feature 89007209 introduced the LFPS command as part of the enhanced FPS feature.

Limitations and restrictions

The LFPS command has no limitations or restrictions.

Syntax

The LFPS command syntax is as follows:

LFPS

Examples

The following tables provide examples of the LFPS command.

LFPS command example

Command:	> LFPS
Description of task:	Log into the LFPSDIR sublevel.

LFPS (end)

LFPS command example

MAP response:	LFPS: Enter Password: >***** Available commands: LOAD - Load the specified FPS subscriber's counter CHG_PSW - Change the password which is used to enter LFPS sublevel HELP - Lists the available commands QUIT - Quit from this increment >
Explanation	You have successfully logged in to the LFPSDIR sublevel and may use the commands listed.

Responses

The following table describes the MAP responses.

LFPS INIT command responses

MAP output	Meaning and action
WARNING: LFPS sublevel is accessible only ENHANCED FPS variant. Please set FPS_VARIANT to ENHANCED.	Meaning: You have attempted to enter the LFPS level with a standard FPS variant. Action: The LFPSDIR sublevel is only available where enhanced FPS is in use. In order to enable enhanced FPS set the FPS_VARIANT office parameter in the OFCENG table to ENHANCED.
ERROR: Invalid Password.	Meaning: The LFPS password you entered was incorrect. Action: If you enter an incorrect password three times a secure log SFPS100 is generated. Enter the correct password.
ERROR: Invalid password is entered for three times.	Meaning: The LFPS password you entered was incorrect three times. A secure log SFPS100 has been generated. Action: Enter the correct password.

LFPSDIR level commands

This chapter provides an overview of the LFPSDIR sublevel of the FPSDIR level. The following table lists the commands available at the LFPSDIR level.

Command
QFPS
LOAD
CHG_PSW
HELP
QUIT

Description

Use the Load Fixed Price Service Directory (LFPSDIR) sublevel of FPSDIR of the CI to access commands for crediting FPS subscribers with extra units.

How to access the LFPSDIR level

Access the LFPSDIR sublevel from the FPSDIR level of the CI environment:

> **lfps**

How to return to the CI

Return to the CI environment:

> **quit**

QFPS

Type

The QFPS command is non-menu.

Target

The command target for the QFPS command is BRISC and XA-Core.

Description

This command is used to query the FPS counters of a specified subscriber or all subscribers. It has the following options:

- DN
- ALL
- SUMMARY
- UNUSEDFOR
- ZERO
- HELP

Release history**ISN06 (TDM)**

Feature 89007209 introduced the enhanced Fixed Price Service and extensions to the FPSDIR level commands.

Limitations and restrictions

The QFPS command has no limitations or restrictions.

Syntax

The QFPS command syntax is as follows:

```
QFPS [{ DN <Directory Number>,  
        ALL,  
        SUMMARY,  
        UNUSEDFOR <0 to 365>  
        ZERO,  
        HELP}]
```

QFPS (continued)

The following table describes the command parameters and variables.

Command parameter and variable descriptions

Parameters and variables	Value	Description
DN	<Directory Number>	Displays the: • Directory number • MOGID of specified line • FPS limit of specified line • FPS counter of specified line
ALL		Displays the: • Directory number of each line • MOGID of each line • FPS limit of each line • FPS counter of each line
SUMMARY		Displays the: • Value of the FPS_VARIANT office parameter • Value of FPS_PRE_ANNOUNCE_LIMIT office parameter • Count of used and recycled FPS subscribers • Number of FPS subscribers defined with FPS1 • Number of FPS subscribers defined with FPS2 • Number of FPS subscribers with zero units • Number of FPS subscribers with fewer than FPS_PRE_ANNOUNCE_LIMIT units • Number of FPS subscribers with more units than their predefined limit (FPS1 or FPS2) Note: The value of FPS1 is set by the FPS_CREDIT_LIMIT_1 office parameter and FPS2 is set by the FPS_CREDIT_LIMIT_2 office parameter.

QFPS (continued)**Command parameter and variable descriptions**

Parameters and variables	Value	Description
UNUSEDFOR	<0 to 365>	Where <0 to 365> gives the number of days that the credit has remained unused. For each line not used for the specified number of days, displays the: • Directory number • MOGID • FPS limit • FPS counter
ZERO		For each line with zero units remaining, displays the: • Directory number • MOGID • FPS limit • FPS counter

Examples

The following tables provide examples of the QFPS command.

QFPS DN command example

Command:	> QFPS DN 7835403
Description of task:	Query the specified FPS subscriber's data.
MAP response:	DN: 7835403 MOG_ID: MOG_2 FPS1 176
Explanation	Line 7835403 is allocated to MOG_2 and has an FPS1 threshold. The current count of units available are 176.

QFPS ALL command example

Command:	> QFPS ALL
Description of task:	Query all FPS subscriber's data.

QFPS (continued)

QFPS ALL command example

MAP response:	WARNING: Query of all FPS counters may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"): >y DN: 7835403 MOG_ID: MOG_2 FPS1 13 DN: 7835404 MOG_ID: \$ FPS2 256 DN: 7835405 MOG_ID: MOG_1 FPS2 0 DN: 7835406 MOG_ID: MOG_3 FPS2 10 DN: 7835407 MOG_ID: MOG_3 FPS2 0 =====
Explanation	TOTAL: 5 FPS subscriber(s) found Each entry gives the directory number, the MOG_ID and FPS threshold for that line, followed by the current count of units available.

QFPS SUMMARY command example

Command:	> QFPS SUMMARY
Description of task:	Query all the FPS subscribers and produce a summary report.

QFPS (continued)

QFPS SUMMARY command example

MAP response:	WARNING: Query of all FPS counters may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"): >y FPS VARIANT: STANDARD PRE_ANNOUNCEMENT_LIMIT: 15 FPS SUBSCRIBERS USED:5 RECYCLE: 7 FPS SUBSCRIBERS DEFINED WITH FPS1 : 1 FPS SUBSCRIBERS DEFINED WITH FPS2 : 4 FPS SUBSCRIBERS WITH ZERO COUNT : 2 FPS SUBSCRIBERS WITH EQUAL AND LESS THAN PRE_ANNOUNCE LIMIT : 2 FPS SUBSCRIBERS WITH MORE THAN PREDEFINED LIMIT: 0
Explanation:	FPS_VARIANT, FPS_PRE_ANNOUNCE_LIMIT, FPS1 (FPS_CREDIT_LIMIT_1), and FPS2 (FPS_CREDIT_LIMIT_2) are office parameters defining the FPS service.

QFPS UNUSEDFOR command example

Command:	QFPS UNUSEDFOR 30
Description of task:	Query all FPS subscribers have not used their credit for the specified number of days

QFPS (continued)

QFPS UNUSEDFOR command example

MAP response:	WARNING: Query of all FPS counters may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"): >y Listed FPS subscriber(s) is/are not used for 30 days. DN: 7835402 MOG_ID: MOG_1 FPS2 5 DN: 7835409 MOG_ID: MOG_2 FPS2 123 =====
Explanation:	TOTAL: 2 FPS subscriber(s) found The report entries are for all the subscribers that have not used their credit for the specified number of days. The entries are formatted in the same way as the other QFPS options.

QFPS ZERO command example

Command:	> QFPS ZERO
Description of task:	Query all FPS subscribers with a zero credit count.
MAP response:	WARNING: Query of all FPS counters with zero count may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"): >y DN: 7835405 MOG_ID: MOG_1 FPS2 0 DN: 7835407 MOG_ID: MOG_3 FPS2 0 =====
Explanation:	TOTAL: 2 FPS subscriber(s) found The report entries are for all the subscribers that have a zero credit count. The entries are formatted in the same way as the other QFPS options.

QFPS HELP command example

Command:	> QFPS HELP
Description of task:	Request help on the QFPS command and its parameters.

QFPS (continued)**QFPS HELP command example**

MAP response:	DN	- Query entered lines DN, mog_id, FPS limit and FPS counter
	ALL	-Query all FPS subscribers DNS, mog_ids, FPS limits and FPS counters.
	SUMMARY	- Print a report about FPS subscribers.
	UNUSEDFOR	-Query all FPS subscribers that are unused for entered days
	ZERO	- Query all FPS subscribers that has zero charge count
	HELP	- Lists available options
Explanation:	Basic help.	

Responses

The following table describes the MAP responses.

QFPS SUMMARY command responses

MAP output	Meaning and action
WARNING: Query of all FPS subscribers and prepare summary may take a significant amount of time	
Please confirm ("YES", "Y", "NO", or "N"):	
	Meaning: Because all the FPS subscribers are checked to prepare the summary report it takes an amount of time.
	Action: Select Y to continue or N to halt the process.

QFPS ZERO command responses

MAP output	Meaning and action
WARNING: Query of all FPS subscribers and prepare summary may take a significant amount of time	
Please confirm ("YES", "Y", "NO", or "N"):	
	Meaning: Because all the FPS subscribers are checked to prepare the summary report it takes an amount of time.
	Action: Select Y to continue or N to halt the process.

QFPS (end)

QFPS UNUSEDFOR command responses

MAP output	Meaning and action
WARNING: Query of all FPS subscribers and prepare summary may take a significant amount of time Please confirm ("YES", "Y", "NO", or "N"):	
	Meaning: Because all the FPS subscribers are checked to prepare the summary report it takes an amount of time.
	Action: Select Y to continue or N to halt the process.

LOAD

Type

The LOAD command is non-menu.

Target

The command target for the LOAD command is BRISC and XA-Core.

Description

The LOAD command is used to add credit units to a subscriber's account. The number of units added can be either FPS1 or FPS2. If neither limit (FPS1 or FPS2) is specified, the default limit for the line is used. Existing units are not lost.

Release history**ISN06 (TDM)**

Feature 89007209 introduced the LOAD command as part of the enhanced FPS feature.

Limitations and restrictions

The LOAD command has no limitations or restrictions.

Syntax

The LOAD command syntax is as follows:

```
LOAD DN <Directory Number> [{FPS1,FPS2}]
```

The following table describes the command parameters and variables.

Command parameter and variable descriptions

Parameters and variables	Value	Description
DN	<Directory Number>	Load entered FPS subscriber with entered limit. If Limit is not entered then line's predefined limit is used to load its FPS counter. <DN> is the directory number to credit.
FPS1		FPS1 is defined by the FPS_CREDIT_LIMIT_1 operational parameter in the OFCENG table.
FPS2		FPS2 is defined by the FPS_CREDIT_LIMIT_2 operational parameter in the OFCENG table.

LOAD (continued)

Examples

The following tables provide examples of the LOAD command.

LOAD command example

Command:	> LOAD DN 7835402
Description of task:	Load specified FPS subscriber with the total of its existing units and its predefined limit units.
MAP response:	----- DN: 7835402 MOG_ID: MOG_2 FPS1 190
Explanation	You have successfully loaded DN: 7835402 with FPS1 units. The total count is now 190.
Command:	> LOAD DN 7835403 FPS2
Description of task:	Load specified FPS subscriber with the total of its existing units and its FPS2 limit.
MAP response:	----- DN: 7835403 MOG_ID: MOG_2 FPS1 270
Explanation	You have successfully loaded DN: 7835403 with FPS2 units, even though the default FPS credit limit is FPS1. The total count is now 270.

Responses

The following table describes the MAP responses.

LOAD DN command responses

MAP output	Meaning and action
INVALID DN	Meaning: This line does not have the FPS option selected. Action: Assign the FPS option to this DN using SERVORD.
INVALID CALLING DN FOR THIS OFFICE	Meaning: This line is not defined in this office. Action: Use a valid DN.
WARNING: FPS counter for 7835402 will be loaded with 32+176 (FPS1) Please confirm ("YES", "Y", "NO", or "N"):	

LOAD (end)

LOAD DN command responses

MAP output	Meaning and action
	Meaning: FPS counter 7836402 will be loaded with total existing counts and the FPS1 limit. Action: Type Y for Yes to continue or, N for No to halt the process. WARNING: FPS counter for 7835403 will be loaded with 32+256 (FPS2) Please confirm ("YES", "Y", "NO", or "N"): Meaning: FPS counter 7836403 will be loaded with total existing counts and the FPS2 limit. Action: Type Y for Yes to continue or, N for No to halt the process. INVALID FPS LIMIT (FPS1/FPS2) Meaning: The command did not recognize the limit that you typed (FPS1 or FPS2). Action: Try the command again and type only FPS1, FPS2 or leave it blank after the DN number.

CHG_PSW

Type

The CHG_PSW command is non-menu.

Target

The command target for the CHG_PSW command is BRISC and XA-Core.

Description

The CHG_PSW command is used to change the password used to access the Load Fixed Price Service Directory (LFPDIR) sublevel below the FPSDIR level.

The password is not case sensitive. It must be exactly 8 characters long and contain at least one symbol, one number and one letter.

Release history**ISN06 (TDM)**

Feature 89007209 introduced the CHG_PSW command as part of the enhanced FPS feature.

Limitations and restrictions

The CHG_PSW command has no limitations or restrictions.

Syntax

The CHG_PSW command syntax is as follows:

CHG_PSW

The following table describes the command parameters and variables.

Examples

The following tables provides an example of the CHG_PSW command.

CHG_PSW command example

Command:	> CHG_PSW
Description of task:	Change the LFPS password using the CHG_PSW command.

CHG_PSW (continued)**CHG_PSW command example**

MAP response:	<pre> Previous LFPS Password Changes Date: Time: User: 02 03 2002 13:40:13 OPERATOR 25 01 2002 01:10:08 ADMIN Enter New Password >***** Please enter the new password again to verify. >***** PASSWORD: Enter your current password to verify. >***** The LFPS password is successfully changed by OPERATOR1. </pre>
Explanation	Operator 1 has successfully changed the password for the LFPSEDIR sublevel.

Responses

The following table describes the MAP responses.

CHG_PSW DN command responses

MAP output	Meaning and action
<pre> Previous LFPS Password Changes Date: Time: User: 02 03 2002 13:40:13 OPERATOR 25 01 2002 01:10:08 ADMIN Enter New Password : </pre>	Meaning: The LFPS password has been changed by the listed users at the dates and times given. Action: Enter the new LFPS password.
<pre> ERROR The password should be eight characters and at least one alphanumeric character. </pre>	Meaning: The new password entered was not valid. Action: Try again. The password must be exactly 8 characters long and contain at least one alphanumeric character.

CHG_PSW (end)

CHG_PSW DN command responses

MAP output	Meaning and action
ERROR: New password verification failed	Meaning: The two new-password entries do not match. Action: Try again.
ERROR: Entered current password is wrong	Meaning: The current password that you entered to confirm the password change was incorrect. Action: Try again.
The LFPS password has been successfully changed by the OPERATOR1	Meaning: The user OPERATOR1 has successfully changed the password. Action: You should now use the new password when you access the LFPSEDIR sublevel.

9 DNSCRNCI level commands

This chapter provides an overview of the DNSCRN level. This chapter also provides detailed information on new or changed commands in the DNSCRN level.

The following table alphabetically lists the commands available at the DNSCRNCI level.

Command
ADDRANGE
DELRANGE
UPDATTR
FINDATTRS

Description

Use the DNSCRNCI level of the MAP to modify the DN screening database as specified by the parameters FROMD and TOD. You may enter an NPI and NOA for the ADDRANGE, DELRANGE and UPDATTR commands.

To access the DNSCRNCI level

To access the DNSCRNCI level, enter the following from the CI environment:

```
>dnscrnci
```

To return to CI

Return to the CI environment:

```
>quit
```

ADDRANGE

Type

The ADDRANGE command is a nonmenu command.

Target

The command target for the ADDRANGE command is ALL.

Description

The ADDRANGE command adds or modifies the DN screening database. It allows addition or modification of a single DN or a range of DNs specified by the parameters FROMD and TOD.

The NOA parameter allows the Nature of Address NOA of the number being added to be specified. The Numbering Plan is assumed to be E164 compliant. The NOA parameter is optional and, if it is not specified, then the number(s) will be added to table DNSCRN.

If the NOA parameter is specified, then table DNSCRMAP is used to determine which DN screening table is modified.

Release history

MMP15

This command is amended by activity 59023556 to allow an optional NOA to be entered.

Limitations and restrictions

The ADDRANGE command has no limits or restrictions.

Syntax

The ADDRANGE command syntax is as follows:

```
ADDRANGE <FROMD> <TOD> <ATTROPTS>  
[<WRITEMODE>{NOREPLACE, REPLACE}] [<NOA> {SUB, NAT, INTL, UNKN,  
NONE}]
```

The following table describes the changed parameters and variables of the ADDRANGE command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
NOA		The NOA of the number to be added or modified.

ADDRANGE (continued)**Example**

The following table provides an example of the ADDRANGE command.

Command example

Command:	>addrange 234 234 unpaid \$ noreplace nat		
Description of task:	Adding an number with Nature of Address of National (NAT)		
MAP response:	MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y NOA option accessed. Table DNSCRN2 modified. ADDRANGE summary Number of tuples added 1 Number of tuples replaced 0 Total number of tuples added or replaced 1 Last DN datafilled 234 Total number of tuples written to Journal file 0		

Responses

The following table explains possible responses to the ADDRANGE command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>addrange 234 234 unpaid \$ noreplace nat		
MAP response:	MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y NOA option specified. Table DNSCRN2 modified. ADDRANGE summary Number of tuples added 1 Number of tuples replaced 0 Total number of tuples added or replaced 1 Last DN datafilled 234 Total number of tuples written to Journal file 0		
Meaning:	The specified table has been modified by the ADDRANGE command.		
Actions:	None. This is for information only.		
Command:	>addrange 234 234 \$ noreplace sub		

ADDRANGE (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

MAP response:	MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y NOA option specified. Table DNSCRN modified. ADDRANGE summary Number of tuples added 1 Number of tuples replaced 0 Total number of tuples added or replaced 1 Last DN datafilled 234 Total number of tuples written to Journal file 0
Meaning:	No matching tuple in DNSCRMAP exists but the table is not empty. The DN screening tables have been unaffected by the ADDRANGE command.
Actions:	Datafill a tuple in DNSCRMAP corresponding to the NOA value being specified.

DELRANGE

Type

The DELRANGE command is a nonmenu command.

Target

The command target for the DELRANGE command is ALL.

Description

The DELRANGE command deletes entries from the DN screening database. It allows deletion of a single DN or a range of DNs specified by the parameters FROMD and TOD.

The NOA parameter allows the Nature of Address NOA of the number being deleted to be specified. The Numbering Plan is assumed to be E164 compliant. The NOA parameter is optional and, if it is not specified, then the number(s) will be deleted from table DNSCRN.

If the NOA parameter is specified, then table DNSCRMAP is used to determine which DN screening table is modified.

Release history**MMP15**

This command is amended by activity 59023556 to allow an optional NOA to be entered.

Limitations and restrictions

The DELRANGE command has no limits or restrictions.

Syntax

The DELRANGE command syntax is as follows:

```
DELRANGE <FROMD> <TOD> [<NOA> {SUB,NAT,INTL,UNKN, NONE}]
```

The following table describes the changed parameters and variables of the DELRANGE command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
NOA		The NOA of the number to be deleted.

DELRANGE (continued)**Example**

The following table provides an example of the DELRANGE command.

Command example

Command:	>delrange 234 234 nat		
Description of task:	Deleting an number with Nature of Address of National (NAT)		
MAP response:	MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y WARNING: ALL TUPLES IN SPECIFIED RANGE WILL BE DELETED FROM TABLE DNSCRN2 Please confirm ("YES", "Y", "NO", or "N") >y NOA option specified. Table DNSCRN modified. DELRANGE summary Number of tuples deleted 1 Last DN deleted 234 Total number of tuples written to Journal file 0		

Responses

The following table explains possible responses to the DELRANGE command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>delrange 234 234 nat		
MAP response:	MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y WARNING: ALL TUPLES IN SPECIFIED RANGE WILL BE DELETED FROM TABLE DNSCRN2 Please confirm ("YES", "Y", "NO", or "N") >y NOA option specified. Table DNSCRN modified. DELRANGE summary Number of tuples deleted 1 Last DN deleted 234 Total number of tuples written to Journal file 0		
Meaning:	The specified table has been modified by the DELRANGE command.		

DELRANGE (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Actions:	None. This is for information only.
Command:	>delrange 234 234 sub
MAP response:	<pre>DELRANGE summary Number of tuples deleted 1 Last DN deleted 234 Total number of tuples written to Journal file 0MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y WARNING: ALL TUPLES IN SPECIFIED RANGE WILL BE DELETED FROM TABLE DNSCRN2 Please confirm ("YES", "Y", "NO", or "N") >y NOA option specified. Table DNSCRN modified.</pre>
Meaning:	No matching tuple in DNSCRMAP exists but the table is not empty. (When no matching tuple in table DNSCRMAP exists, then table DNSCRN is accessed to attempt to make the relevant change).
Actions:	Datafill a tuple in DNSCRMAP corresponding to the NOA value being specified.

FINDATTRS

Type

The FINDATTRS command is a nonmenu command.

Target

The command target for the FINDATTRS command is ALL.

Description

The FINDATTRS command will search table DNSCRN based on the given attributes. It is a general tool that works for all the attributes in table DNSCRN. The FINDATTRS command contains the following subcommands:

- HELP
- SEARCH
- SEARCHALL
- SET
- QUIT

Release history

This command was created in SN06.

Limitations and restrictions

The FINDATTRS command has no limits or restrictions.

Syntax

The FINDATTRS command syntax is as follows:

The syntax of the FINDATTRS command

```
HELP          - Prints a list of FINDATTRS commands
                and a description of each command
SET           - Sets up environment for the SEARCH command
                Displays current environment when no parameters
                specified
Parms: [<OPTIONS>... {FINDMODE <MODE> {EXACT,

                STARTAT <DN> STRING,
                STOP <OPT> {AT <DN> STRING,
                AFTER <NUM_OF_TUPLES> {1 TO 8000000}},
                DISPLAY <NUM_OF_TUPLES> {1 TO 8000000}},
                SHOW <DN/TUPLE> {DN,
                                TUPLE}}]
DEFAULTS     - Initializes the options for the SEARCH
                command with default values
SEARCH        - Searches table DNSCRN for specified attributes
                <ATTROPTS> - vector of up to 25 attributes
SEARCHALL     - Searches table DNSCRN for attributes CLILTID1
                CLILTID2, SCRGRP1, and SCRGRP2
Parms: <LTGRP> STRING
        <LTNUM> {1 TO 1022}
QUIT         - Quits FINDATTRS increment
```

Subcommands**HELP subcommand**

This command prints a list of FINDATTRS commands and a description of each command.

SEARCH subcommand

This command accepts as a parameter the attributes to search for in table DNSCRN. The SEARCH command will scan table DNSCRN and display tuples datafilled with the attributes specified in the ATTROPTS parameter of the command.

SEARCHALL subcommand

This command accepts an LTID to search all the attributes of table DNSCRN. The user is prompted for the LTID, and the command will scan all attributes of table DNSCRN.

SET subcommand

The SET subcommand sets up the search environment. Parameters of the SET subcommand are:

- FINDMODE
- STARTAT

- STOP
- DISPLAY
- SHOW
- QUIT

FINDMODE

These are the two modes for searching. An EXACT search takes the data associated with an input attribute literally and search the table. The sequence of given data under its attribute is significant. A WILD search finds all the combinations based on the given attribute data. For example, consider the following two tuples in table DNSCRN:

Table DNSCRN datafill examples

DN	ATTROPTS
1234567	(CLILTID1 (ISDN 5) (ISDN 6) (ISDN 8) \$)\$
7654321	(CLILTID1 (ISDN 5) (ISDN 8) \$) \$

For a search command: SEARCH CLILTID1 ISDN 5 ISDN 8,

- An EXACT search would only find the second tuple, but not the first one.
- A WILD search would find both tuples.

For EXACT search, the sequence of (ISDN 5, ISDN 8) under attribute CLILTID1 is significant. The sequence of attributes given in the SEARCH command is not significant for the WILD search.

Note: This parameter is only applicable to the SEARCH subcommand.

STARTAT

This command is used to specify the DN to start the search at. The given DN does not have to be present in the table.

STOP

This command is used to specify how to stop the search. AT specifies which DN to stop at. AFTER specifies how many tuples in the table to search for.

Note: This parameter will be valid only when STARTAT has been defined.

If AT is specified, the search would stop after the given DN is searched. For AT, the given DN does not have to be present in the table. In this case, no tuple after the given DN, if any, would be searched.

If AFTER is specified, the search stops after the specified number of tuples are searched.

DISPLAY

This command specifies how many found tuples to display.

SHOW

This command specifies what to display for a found tuple. DN indicates only DN is displayed. TUPLE indicates the entire tuple is displayed.

DEFAULTS subcommand

Different from the SET command, the FINDATTRS command DEFAULTS sets the search environment to system defaults. They are:

- FINDMODE: exact
- STARTAT: NIL (if the table is empty) or the DN of the first tuple
- STOP: AFTER 0 (zero, if the table is empty) or the total number of tuples in the table
- DISPLAY: the lesser of 10 and the total number of tuples in the table. If the table is empty, DISPLAY is set to 0.
- SHOW: tuple

The following table describes the parameters and variables of the FINDATTRS command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
HELP		This command prints a list of FINDATTRS commands and a description of each command.
SEARCH		This command accepts as a parameter the attributes to search for in table DNSCRN. The SEARCH command will scan table DNSCRN and display tuples datafilled with the attributes specified in the ATTROPTS parameter of the command.
SEARCHALL		This command accepts an LTID to search all the attributes of table DNSCRN. The user is prompted for the LTID, and the command will scan all attributes of table DNSCRN.

Command parameter and variable descriptions

Parameters and variables	Value	Description
SET		The SET subcommand sets up the search environment. Parameters of the SET subcommand are: • FINDMODE • STARTAT • STOP • DISPLAY • SHOW • QUIT
FINDMODE	EXACT , WILD	These are the two modes for searching. An EXACT search takes the data associated with an input attribute literally and search the table. The sequence of given data under its attribute is significant. A WILD search finds all the combinations based on the given attribute data.
STARTAT		This command is used to specify the DN to start the search at. The given DN does not have to be present in the table.
STOP		This command is used to specify how to stop the search. AT specifies which DN to stop at. AFTER specifies how many tuples in the table to search for. Note: This parameter will be valid only when STARTAT has been defined. If AT is specified, the search would stop after the given DN is searched. For AT, the given DN does not have to be present in the table. In this case, no tuple after the given DN, if any, would be searched. If AFTER is specified, the search stops after the specified number of tuples are searched.
DISPLAY		This command specifies how many tuples to display.

Command parameter and variable descriptions

Parameters and variables	Value	Description
SHOW	DN, TUPLE	This command specifies what to display for a found tuple. DN indicates only DN is displayed. TUPLE indicates the entire tuple is displayed.
DEFAULTS		Different from the SET command, the FINDATTRS command DEFAULTS sets the search environment to system defaults. They are: • FINDMODE: exact • STARTAT: NIL (if the table is empty) or the DN of the first tuple • STOP: AFTER 0 (zero, if the table is empty) or the total number of tuples in the table • DISPLAY: the lesser of 10 and the total number of tuples in the table. If the table is empty, DISPLAY is set to 0. • SHOW: tuple

Example

The following table provides an example of the FINDATTRS command and its subcommands.

Command example

Command:	>FINDATTRS >SET
Description of task:	Display the currently set search attributes
MAP response:	FINDMODE - EXACT STARTAT - 1 STOP - AFTER 5 DISPLAY - 5 SHOW - TUPLE

Responses

The following table explains possible responses to the FINDATTRS command.

MAP responses with associated meanings and actions

Command:	>FINDATTRS: >SET >SEARCH CLILTID 1 ISDN 1 \$ \$
MAP response:	FINDMODE - EXACT STARTAT - 1 STOP - AFTER 5 DISPLAY - 5 SHOW - TUPLE DN ATTROPTS ----- 6137221234 (CLISI) (CLILTID1 (ISDN 1)\$) \$ SEARCH summary ----- Reason for Stopping - Requested number of tuples scanned (STOP AFTER) Number of tuples displayed - 1 Last search attempted on DN - 6137221234 Returns the search results for CLILTID 1 ISDN 1 in the EXACT FINDMODE.
Actions:	None
Command:	>SET FINDMODE WILD >SEARCH CLILTID1 ISDN 1 \$ \$

MAP responses with associated meanings and actions

MAP response:	FINDMODE - WILD STARTAT - 1 STOP - AFTER 5 DISPLAY - 5 SHOW - TUPLE DN ATTROPTS ----- 1 (CLISI) (CLILTID1 (ISDN 1) (ISDN 3) (ISDN 7) (ISDN 8) (ISDN 26) (ISDN 51)\$) (CLILTID2 (ISDN 104) (ISDN 105) (ISDN 106) (DWS 2) (DWS 4) (DWS 6)\$) \$ 6137221234 (CLISI) (CLILTID1 (ISDN 1)\$) \$ SEARCH summary ----- Reason for Stopping - Requested number of tuples scanned (STOP AFTER) Number of tuples displayed - 2 Last search attempted on DN - 6137221234
Meaning:	Performs a WILD search for CLILTID1 ISDN 1.
Actions:	None
Command:	>SEARCHALL ISDN 1
MAP response:	DN ATTROPTS ----- 1 (CLISI) (CLILTID1 (ISDN 1) (ISDN 3) (ISDN 7) (ISDN 8) (ISDN 26) (ISDN 51)\$) (CLILTID2 (ISDN 104) (ISDN 105) (ISDN 106) (DWS 2) (DWS 4) (DWS 6)\$) \$ 6134557045 (CLISI) (SCRGRP2 (TEST)\$) \$ 6134559898 (CLISI) (SCRGRP1 (PRITEST)\$) \$ 6137221111 (CLISI) (CLILTID2 (ISDN 1) (ISDN 105)\$) \$ 6137221234 (CLISI) (CLILTID1 (ISDN 1)\$) \$ SEARCH summary ----- Reason for Stopping - Requested number of tuples displayed (DISPLAY) Number of tuples displayed - 5 Last search attempted on DN - 6137221234

MAP responses with associated meanings and actions

Meaning:	Searches all the attributes of each tuple in table DNSCRN for the given attribute and returns the resulting tuples.
Actions:	None

UPDATTR

Type

The UPDATTR command is a nonmenu command.

Target

The command target for the UPDATTR command is ALL.

Description

The UPDATTR command updates a single attribute for a single DN or a range of DNs specified by the parameters FROMD and TOD.

The NOA parameter allows the Nature of Address NOA of the number being updated to be specified. The Numbering Plan is assumed to be E164 compliant. The NOA parameter is optional and, if it is not specified, then the number(s) will be updated in table DNSCRN.

If the NOA parameter is specified, then table DNSCRMAP is used to determine which DN screening table is modified.

Release history

MMP15

This command is amended by activity 59023556 to allow an optional NOA to be entered.

Limitations and restrictions

The UPDATTR command has no limits or restrictions.

Syntax

The UPDATTR command syntax is as follows:

```
UPDATTR <FROMD> <TOD> <OLDATTR> <NEWATTR> [<NOA>
{SUB, NAT, INTL, UNKN, NONE}]
```

The following table describes the changed parameters and variables of the UPDATTR command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
NOA		The NOA of the number to be altered.

UPDATTR (continued)

Example

The following table provides an example of the UPDATTR command.

Command example

Command:	>updattr 123 123 \$ blkcall unpaid nat		
Description of task:	Updating an number with Nature of Address of National (NAT)		
MAP response:	<pre>MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y OLDATTR in tuple range will be modified DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y NOA option specified. Table DNSCRN2 modified. UPDATTR summary Number of tuples with attribute modified 1 Tuple with attribute found but not modified 0 Last DN checked 123 Total number of tuples written to Journal file 0</pre>		

UPDATTR (continued)

Responses

The following table explains possible responses to the UPDATTR command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>updattr 123 123 \$ blkcall unpaid nat		
MAP response:	MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y OLDATTR in tuple range will be modified DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y NOA option specified. Table DNSCRN2 modified. UPDATTR summary Number of tuples with attribute modified1 Tuple with attribute found but not modified0 Last DN checked123 Total number of tuples written to Journal file0		
Meaning:	The specified table has been modified by the UPDATTR command.		
Actions:	None. This is for information only.		
Command:	>updattr 123 123 blkcall unpaid sub		
MAP response:	MACHINES NOT IN SYNC - DMOS NOT ALLOWED JOURNAL FILE IS INACTIVE - DMOS NOT ALLOWED DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y OLDATTR in tuple range will be modified DO YOU WISH TO CONTINUE? Please confirm ("YES", "Y", "NO", or "N") >y NOA option specified. Table DNSCRN modified. UPDATTR summary Number of tuples with attribute modified1 Tuple with attribute found but not modified0 Last DN checked123 Total number of tuples written to Journal file0		

UPDATTR (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	No matching tuple in DNSCRMAP exists but the table is not empty. (When no matching tuple in table DNSCRMAP exists, then table DNSCRN is accessed to attempt to make the relevant change).
Actions:	Datafill a tuple in DNSCRMAP corresponding to the NOA being specified.

DPTLTP level commands

The DPTLTP directory contains commands for finding and displaying the DPT group and CIC associated with a posted line. The DPTLTP directory is a sub-level to the LTP directory.

The DPTLTP commands are as follows:

- FIND
- DISPLAY

To access the directory

To access the DPTLTP directory, enter the following command:

```
> mapci;mtc;lms;ltp;dptltp
```

To return to CI

To return to the CI, enter the following command:

```
> quit mapci
```


DISPLAY

Purpose

When a line is posted at the DPTLTP level, the DISPLAY command will determine what DPT group and CIC are associated with the posted line. It also displays the DPT group, CIC and DPT terminal ID (TID) information for that associated resource.

Command type

Listed Menu

Command target

SuperNode

Command availability

Resident

Release history

SN06 (DMS)

This command was introduced with the DPTLTP directory by feature number 89007733.

Example

The following figure gives an example display for the DISPLAY command.

DISPLAY command example output

```
DPT GROUP : DPTTRAFEG
DPT TERMINAL: SPM    2   3633
TYPE: ISUPPLUS
CIC: 300038912
```

FIND

Purpose

The FIND command finds the line associated with the DPT group and CIC that you supply as parameters. If an associated line exists then you are prompted before the line is posted.

Command type

Listed Menu

Command target

SuperNode

Command availability

Resident

Release history

SN06 (DMS)

This command was introduced with the DPTLTP directory by feature number 89007733.

Syntax

The FIND command syntax is as follows:

```
FIND <DPT group> <CIC number>
```

Example

The following figure gives an example display for the FIND command.

FIND command example

```
FIND dptrafeg 300038912
```

DPTTRM level commands

The DPTTRM directory allows Dynamic Packet Trunk (DPT) enabled nodes to be posted and acted upon. This directory supports the ability to display or post a set of DPT nodes. In addition, there is one new command added to this directory.

This chapter describes the syntax, purpose, and semantics of the DPTTRM commands for the DPT and lists them in the following order. Included with each command description are some of the messages that may occur when the command is executed.

The DPTTRM commands are as follows:

- Disp
- Post
- Bsy set, Rts set, Frls set

To access the directory

To access the DPTTRM directory, enter the following command:

```
> mapci;mtc;trks;dpttrm
```

To return to CI

To return to the CI, enter the following command:

```
> quit mapci
```

Disp

Purpose

This command displays the state of Dynamic Packet Trunk (DPT) terminal IDs (TIDs) on a set of DPT enabled nodes in the response area of the DPTTRM window. You cannot then perform actions on the information. The information is also static, to refresh it use the DISPLAY command again.

Command type

Listed Menu

Command target

SuperNode

Command availability

Resident

Release history

SN06 (DMS)

This command was updated for feature number 89007733.

Parameters

Parameters are described in the following table.

Table 8-4

Command	Parameters and variables	Meaning
Disp	BICC	Bearer Independent Call Control
Disp	SIPT	Session Initiation Protocol for Telephony (SIP-T)
Disp	SPM <ALL>,<SMG4>,<DPT>,<SPM#>	Service Peripheral Module (SPM)
Disp	GWC <ALL>,<SIPT>,<BICC>,<GWC#>	Gateway Controller (GWC)

Examples

The following figure gives an example display for the Disp command.

DISP GWC ALL Command Example Output

XAC	MS	IOD	Net	PM	CCS	Lns	Trks	Ext	APPL
.	.	.	.	.	.	.	.	.	.
DPTTRM									
0 Quit		PM:							
2 Post_									
3		SUB	STA	INB	MANB	PMB	SYSB	CPB	CPD
4 Disp_									IDL
5 Bsy_									
6 RTS_									
7									
8 Frls_									
9									
10 Alrm									
11									
12 Next		DISP GWC ALL							
13			INB	MANB	PMB	SYSB	CPB	CPD	IDL
14		SIPT	2047	0	0	0	0	0	0
15		BICC	0	0	0	0	0	0	2047
17		TOTAL	2047	0	0	0	0	0	2047
18									
AGE									
Time 15:24									>

The following table provides examples of the Disp command.

Table 8-5 Disp command examples

Command:	> DISP BICC
Description of task:	Display a summary of all BICC DPT-enabled nodes.
MAP response:	A summary of all the BICC DPT-enabled nodes.
Command:	> DISP SIPT
Description of task:	Display a summary of all SIPT DPT-enabled nodes.
MAP response:	A summary of all the SIPT DPT-enabled nodes.
Command:	> DISP SPM ALL
Description of task:	Display a summary of all DPT-enabled SPM type nodes.
MAP response:	A summary of all the DPT-enabled SPM type nodes.
Command:	> DISP SPM SMG4
Description of task:	Display a summary of all SMG4 class DPT-enabled SPMs.
MAP response:	A display of all DPT-enabled MG4000 nodes.
Command:	> DISP SPM DPT

Table 8-5 Disp command examples

Description of task:	Display all DPT-enabled Inter-Working (IW) nodes.
MAP response:	A display of all the DPT-enabled IW nodes.
Command:	> DISP SPM 3
Description of task:	Display an individual SPM.
MAP response:	DPT-enabled node SPM 3 is displayed.
Command:	> DISP GWC ALL
Description of task:	Display a summary of all DPT-enabled nodes residing on GWCs.
MAP response:	A summary of all DPT-enabled GWC nodes is displayed.
Command:	> DISP GWC SIPT
Description of task:	Display all GWCs which are SIP-T DPT-enabled nodes.
MAP response:	All the GWC SIP-T DPT-enabled nodes are displayed.
Command:	> DISP GWC BICC
Description of task:	Display all GWCs that are BICC DPT-enabled nodes.
MAP response:	All GWC BICC DPT-enabled nodes are displayed.
Command:	> DISP GWC 85
Description of task:	Display an individual GWC which is DPT-enabled.
MAP response:	DPT-enabled GWC 85 is displayed.

Responses

The following table describes the MAP responses.

Table 8-6 Disp command responses

MAP output	Meaning and action
No PM specified for display has DPT terminals.	Meaning: This indicates that the parameters used with the Disp command do not have DPT terminal IDs (TIDs) provisioned on them.

Post

Purpose

The posted set of Dynamic Packet Trunk (DPT)-enabled nodes appears in the refresh area of the DPTTRM window. The Post command allows you to post one, all or a subset of the DPT-enabled nodes. You can act upon the posted set or just the currently displayed node at any time.

Command type

Listed Menu

Command target

SuperNode

Command availability

Resident

Release history

SN06 (DMS)

This command was updated for feature number 89007733.

Parameters

Parameters are described in the following table.

Table 8-7

Command	Parameters and variables	Meaning
Post	BICC	Bearer Independent Call Control
Post	SIPT	Session Initiation Protocol for Telephony (SIP-T)
Post	SPM <ALL>,<SMG4>,<DPT>,<SPM#>	Service Peripheral Module (SPM)
Post	GWC <ALL>,<SIPT>,<BICC>,<GWC#>	Gateway Controller (GWC)

Examples

The following figure gives an example display for the Post command.

POST SPM ALL Command Example Output

XAC	MS	IOD	Net	PM	CCS	Lns	Trks	Ext	APPL
.	.	.	.	.	.	.	.	.	.
DPTTRM									
0 Quit		PM:	SPM	0		POSTED	SET:	SPM ALL	1 of 75
2 Post_									
3		SUB	STA		INB	MANB	PMB	SYSB	CPB
4 Disp_		0	INSV		0	0	0	0	0
5 Bsy_									
6 RTS_									
7									
8 Frls_									
9									
10 Alrm									
11									
12 Next		POST SPM ALL							
13									
14									
15									
16									
17									
18									
AGE									
Time	15:24	>							

The following table provides examples of the Post command.

Table 8-8 Post command examples

Command:	> POST BICC
Description of task:	Post all BICC DPT-enabled nodes.
MAP response:	All BICC DPT-enabled nodes are posted.
Command:	> POST SIPT
Description of task:	Post all SIPT DPT-enabled nodes.
MAP response:	All SIPT DPT-enabled nodes are posted.
Command:	> POST SPM ALL
Description of task:	Post all DPT-enabled SPM type nodes.
MAP response:	All DPT-enabled SPM type nodes are posted.
Command:	> POST SPM SMG4
Description of task:	Post all SMG4 class DPT-enabled SPMs.
MAP response:	All DPT-enabled MG4000 nodes are posted.
Command:	> POST SPM DPT

Table 8-8 Post command examples

Description of task:	Post all DPT-enabled Inter-Working (IW) nodes.
MAP response:	All the DPT-enabled IW nodes are posted.
Command:	> POST SPM 3
Description of task:	Post an individual SPM.
MAP response:	DPT-enabled node SPM 3 is posted.
Command:	> POST GWC ALL
Description of task:	Post all DPT-enabled nodes residing on GWCs.
MAP response:	All DPT-enabled GWC nodes are posted.
Command:	> POST GWC SIPT
Description of task:	Post all GWCs which are SIP-T DPT-enabled.
MAP response:	All the GWC SIP-T DPT-enabled nodes are posted.
Command:	> POST GWC BICC
Description of task:	Post all GWCs that are BICC DPT-enabled nodes.
MAP response:	All GWC BICC DPT-enabled nodes are posted.
Command:	> POST GWC 85
Description of task:	Post an individual GWC which is DPT-enabled.
MAP response:	DPT-enabled GWC 85 is posted.

Responses

The following table describes the MAP responses.

Table 8-9 Post command responses

MAP output	Meaning and action
No PM specified for display has DPT terminals.	Meaning: This indicates that the parameters used with the Post command do not have DPT terminal IDs (TIDs) provisioned on them.

Bsy set, Rts set, FrIs set

Purpose

The SET parameter has been added to the existing busy (BSY), return to service (RTS) and forced release (FRLS) commands in the DPTTRM level. The new SET parameter allows each of the commands to act on the selected set of DPT-enabled nodes that have been selected using the Post command.

Command type

Listed Menu

Command target

SuperNode

Command availability

Resident

Release history

SN06 (DMS)

This command parameter was added for feature number 89007733.

10 DRM level commands

Use the DRM level of the MAP to perform control and review functions for a distributed recording manager (DRM).

Accessing the DRM level

To access the DRM level, enter the following from the CI level:

```
mapci;mtc;appl;oamap;drm
```

DRM commands

The commands available at the DRM MAP level are described in this chapter and arranged in alphabetical order.

Table 10-1

DRM Commands
Command
dat dump

DRM menu

The following figure shows the DRM menu and status display.

Figure 10-1

		CM	MS	IOD	Net	PM	CCS	LNS	Trks	Ext	APPL
		.	.	.	.	.	.	.	.	.	.
DRM		DCAP	OAMAP	E10							
0	Quit	1	ISNCP	ACBLNK							
2											
3	Info_										
4	Audit_	ACB :	ACBLNK	TSI :	TSILNK	DRM :	.				
5	Rotate_										
6	Rename_										
7	Mount										
8	Demount										
9	Reset_										
10	DAT_										
11	View_										
12	tcopy_										
13	Monitor_										
14											
15											
16											
17											
18	Copy_										

A.59019152
MCI DAT Tape Format

Feature name

MCI DAT Tape Format

Description

The feature provides a billing dump subcommand, DAT DUMP, which automates the writing of DRM files to tape. If a tape runs out of space while writing a file to tape, a new log and CI response is generated to warn the operating company personnel of the situation.

Hardware requirements

MCI DAT Tape Format has no new hardware requirements, though the customer switch site must have a provisioned FP with a DAT tape drive to make use of this functionality.

Limitations and restrictions

The limitations and restrictions that follow apply to MCI DAT Tape Format:

- This feature only applies to FP DATs. IOM and SDM DATs are not affected.
- The FP DAT writes Nortel Networks specific information to the UHL1 and UTL1 header fields, and requires this information to be able to recover the data written to tape.

Interactions

MCI DAT Tape Format does not interact with other functionalities.

Datafill

MCI DAT Tape Format does not change data schema tables or office parameters.

Service orders

MCI DAT Tape Format does not change the Service Order System (SERVORD).

A.59019152

MCI DAT Tape Format (end)

Operational measurements

MCI DAT Tape Format does not change operational measurements (OM).

Logs

The following new logs are added.

New or modified logs

Log name	Log number	NEW/MOD/DELETED	System (SOS/UNIX)
DRM	602	NEW	SOS
DRM	603	NEW	SOS

Command interface

MCI DAT Tape Format does add the following command and modify the following directory..

New/modified commands

Command Name	NEW, CHANGED OR DELETED	New name (if renamed)	Directory/MAP level name	MENU/ NON-MENU/ HIDDEN
DAT DUMP	NEW		DRM	MENU

New/modified directory

Directory name	NEW, CHANGED OR DELETED	New name (if renamed)	Target	RES/ NON-RES
DRM	CHANGED		S/DMS	RES

Billing

No AMA/billing information is added or modified by this feature.

DAT DUMP

Function

Use this command to start or stop the automated process to transfer billing files from disk to tape for a specified date. The command is used after an initialized DAT tape is mounted. DAT DUMP START disables all other DAT commands and begins the process of automatically transferring billing files from disk to tape for a specified date.

DAT DUMP command parameters and variables

Command	Parameters and variables
dat dump	start [GroupID] <Date> stop info
Parameters and variables	Description
start	DAT DUMP START <date> begins the process of transferring all closed but unwritten billing files of the specified date to tape. The date specified may be either the current date or a previous date. If no date is entered, the default date will be the current date.
stop	DAT DUMP STOP stops the automated file writing process. This command is used to manually stop the process based on evaluation criteria. If the tape runs out of space before all of the billing files are written, the process will stop automatically and a DRM602 log is generated.
info	DAT DUMP INFO can be used to display information about the active file dump process. The following information about the process will be displayed: • node name of the active file dump • device name • number of files written to tape • status of the dump, either writing or idle and waiting for a file to close

Type

The DAT DUMP command is a listed MENU command at the DRM level.

DAT DUMP (continued)

Target

The command target for the DAT DUMP command is SUPERNODE, BRISC.

Description

This command can be used to start or stop the automated process to transfer billing files from disk to tape for the specified date. The operating company personnel is expected to mount an initialized DAT tape prior to the execution of this command. DAT DUMP START disables all other DAT commands and begins the process of automatically transferring billing files from disk to tape for a specified date. The operating company personnel can quit out of the DRM map level and execute other commands at the console.

The DAT DUMP subcommand allows the operating company personnel to specify the date corresponding to the files intended for writing to tape. This subcommand is designed to function according to the date parameter as follows:

- When the current date is entered, all closed but unwritten billing files from the current date will be written to tape. As more billing files are closed during the current date, they are automatically written to tape.
- The operating company personnel has the option of entering a previous date. In this scenario, only closed and unwritten billing files from that date will be written to tape.
- If no date is entered, the default date used will be the current date. Only closed and unwritten billing files from that date will be written to tape.
- When billing files of different dates are encountered from different billing streams, only the files that correspond to the date specified will be written to tape. All other files will not be written to tape.

The DAT DUMP INFO command displays information regarding the active file dump process. The command returns the following:

- the active file dump's node name.
- device name.
- the number of files written to tape by the current process.
- the status of the current process, writing to tape or idle and waiting for a file to close.

DAT DUMP (continued)

The DAT DUMP STOP command is used to stop the automated file writing process. The operating company personnel can determine when to manually stop the dump based on the following evaluation:

- the dump of the current date and the schedule of different billing streams.
- the dump of a previous date and the need to stop the dump when it enters the idle state.
- the need to stop the dump for any other reason.

If the tape runs out of space before all of the billing files are written, the process will stop automatically and a DRM602 log will be generated.

Release history

NA014

DAT DUMP is a new command.

Qualifications and warnings

If there are any closed and unwritten billing files from an earlier date than the one entered, a warning is generated.

The automated dump process will continue to write files to tape until a stop command is issued or the tape runs out of space which will generate a log report of the event.

Note: If an FP restart is initiated while DAT DUMP is running, the process will stop with no warnings produced. In order for the automated dump process to start again after the restart, the operating company personnel will have to enter the DAT DUMP START command again.

Command Syntax

The DAT DUMP command syntax is as follows:

```
DAT DUMP START [GroupId] <Date>
```

```
DAT DUMP STOP
```

```
DAT DUMP INFO
```

DAT DUMP (continued)

The following table describes the parameters of the DAT DUMP command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
Group ID	SBS	Billing Group ID
Date	6 chars YYMMDD	Year, Month, Day

Responses

The following responses are generated for the input command indicated.

Map responses with associated meaning and actions (Sheet 1 of 5)

Command	>DAT DUMP XXXX
MAP response	BAD <action> PARAMETER
Meaning:	You entered an invalid DAT DUMP parameter.
Actions:	Enter a correct parameter.
Command	>DAT DUMP START
MAP response	MISSING <groupid> PARAMETER
Meaning	You omitted the required parameter.
Actions:	Enter a parameter.
Command	>DAT DUMP START BLAH
MAP response	INVALID <groupid> PARAMETER
Meaning	You entered an invalid group ID.
Actions:	Enter a valid group ID.
Command	>DAT DUMP START SBS 00021
MAP response	INVALID <date> PARAMETER
Meaning	You entered an invalid date format.
Actions:	Enter the date in the format of YYMMDD.
Command	>DAT DUMP START SBS 0002181

DAT DUMP (continued)**Map responses with associated meaning and actions (Sheet 2 of 5)**

MAP response	INVALID <date> PARAMETER
Meaning	You entered an invalid date format.
Actions:	Enter the date in the format of YYMMDD.
Command	>DAT DUMP START SBS 00021A
MAP response	INVALID <date> PARAMETER
Meaning	You entered an invalid date format.
Actions:	Enter the date in the format of YYMMDD.
Command	>DAT DUMP START SBS
MAP response	A dump has been started for SBS for the date YY/MM/DD.
Meaning	You omitted the date and the program used the default (current) date.
Actions:	None unless the default date is not the required date.
Command	>DAT DUMP START SBS 000101
MAP response	A dump has been started for the date 00/01/01.
Meaning	The dump has started for the requested date (YYMMDD).
Actions:	none
User action:	If DAT DUMP is currently active and the user enters:
Command	>DAT DUMP START SBS
MAP response	A dump is already in progress.
Meaning	You have entered the command twice.
Actions:	none required.
User action:	An earlier file(s) exists on the disk and the user enters:
Command	>DAT DUMP START SBS
MAP response	An earlier file has been detected. Do you wish to abort the dump operation? (Y/N).
Meaning	By omitting the date the program will use the default (current) date but it is alerting you that there is a file(s) with an earlier date.

DAT DUMP (continued)

Map responses with associated meaning and actions (Sheet 3 of 5)

Actions:	Respond to abort (Y) or continue with the dump (N).
User action:	>B
Map Response	Invalid Response. Please enter Y or N.
User action:	>N
Map Response	A dump has been started for SBS for the date yy/mm/dd.
User action:	>Y
Map Response	The requested dump operation has been aborted.
User action:	If DAT DUMP is currently active and the user enters any DAT subcommand that is not DAT DUMP related (for example DAT VERIFY, DAT MOUNT).
Map Response	Only DAT DUMP subcommands are enabled during a dump.
Meaning	Do not disturb the process unless you want to stop it or you require information.
Actions:	To stop the process: >DAT DUMP STOP To obtain information: >DAT DUMP INFO.
Command	>DAT DUMP STOP
Map Response	A dump has been stopped for SBS for the date yy/mm/dd. ## files have been dumped to tape.
Meaning	The program confirms that the dump process is stopped and shows the number of files that have been dumped.
Actions:	Dismount the tape or start another dump.
User action:	If there is no DAT DUMP process active and the user enters:
Command	>DAT DUMP STOP
Map Response	A dump is not currently in progress.
Meaning	There is no process to stop.
Actions:	none
System Action:	A DAT DUMP process is in progress.
Command	>DAT DUMP INFO

DAT DUMP (continued)

Map responses with associated meaning and actions (Sheet 4 of 5)

Map Response	A dump was started for SBS for the date yy/mm/dd. Node: FP0 Device: CT02 The dump has written ## files to tape. The dump is currently writing a file to tape.
Meaning	A dump is in progress.
Actions:	None unless you wish to stop the process.
System Action:	The DAT DUMP process is finished and is in an idle state.
Command	>DAT DUMP INFO
Map Response	A dump was started for SBS for the date yy/mm/dd. Node: FP0 Device: CT02 The dump has written ## files to tape. The dump is waiting for the next file to be closed.
Meaning	All files requested by dump process have been dumped and the program is waiting for more files.
Actions:	Enter the >DAT DUMP STOP command.
System Action:	No DAT DUMP process is active.
Command	>DAT DUMP INFO
Map Response	A dump is not currently in progress.
Meaning	There is no active process to supply information for.
Actions:	none
System event	A dump runs out of space on the tape while writing a file.
Map Response	OPERATION FAILED There is not enough room on the tape to complete the file copy. ## files have been dumped to tape.
System response	A log DRM602 is generated due to insufficient tape space.
Meaning	The tape is full and the system is waiting for a new tape.
Actions:	Dismount the full tape and mount an initialized empty tape.
System event	A DAT WRITE command is issued to write to a full tape.
Map Response	OPERATION FAILED There is not enough room on the tape to complete the file copy.

DAT DUMP (end)

Map responses with associated meaning and actions (Sheet 5 of 5)

System response	A log DRM602 is generated due to insufficient tape space.
Meaning	The tape is full.
Actions:	Dismount the full tape and mount an initialized empty tape.

DRM602

Explanation

Tape out of space. This log report is generated when a DAT tape runs out of space while trying to write a file to tape. This is a prompt for the operating company personnel to mount a new tape on the FP DAT drive.

Format

The format for log report DRM602 follows.

```
DRM602 mmmdd hh:mm:ss ss INFO Application Protocol
A DAT tape ran out of room while attempting to write a file
Node Name: <node name>
DAT Tape Drive: <device name>
File Name: <file name>
```

Example

An example of log report DRM602 follows.

```
DRM602 AUG11 10 : 03 : 00 INFO Device State Change
A DAT tape ran out of room while attempting to write a file.
Node Name: FP0
DAT Tape Drive: CT02
File Name: UN0002181400140CC
```

Field descriptions

The following table explains each of the fields in the log report:

(Sheet 1 of 2)

Field	Value	Description
mmmdd hh mm:ss	Constant	Month, Date, hour, minutes, seconds
INFO Application Protocol	Constant	Text String
Log Text	"A DAT tape ran out of room while attempting to write a file"	Information regarding tape space error
node name	Symbolic Text	The name of the node on which the event occurred (for example FP0)

DRM602 (end)

(Sheet 2 of 2)

Field	Value	Description
device name	Symbolic Text	The name of the device on which the event occurred (for example CT02)
file name	Symbolic Text	The name of the file causing the event (for example UN0002181400140CC)

Action

When a DRM602 log report occurs, the operating company personnel should eject the currently mounted tape for the node and device causing the report, mount a new tape, and copy the filename to the new tape. No immediate action is required, but the operating company personnel should note that the file causing this log report has not been backed up to tape.

Related OM registers

NONE

Additional information

NONE

DRM603

Explanation

Dump is idle on non-current date. This log report is generated when a DAT DUMP process runs out of files to write to tape on a non-current date. This is a prompt for the operating company personnel to decide whether or not to deactivate the dump process via a DAT DUMP STOP.

Format

The format for log report DRM603 follows.

```
DRM603 mmmdd hh:mm:ss ss INFO Operation
A DAT DUMP process is now waiting for additional files to close for
a date other than the current date.
DAT Tape Drive: <device name>
```

Example

An example of log report DRM603 follows.

```
DRM603 AUG11 10 : 03 : 00 INFO Device State Change
A DAT DUMP process is now waiting for additional files to close for a date
other than the current date.
DAT Tape Drive: CT02
```

Field descriptions

The following table explains each of the fields in the log report:

Field	Value	Description
mmddhh mm:ss	Constant	Month, Date, hour, minutes, seconds
INFO Operation	Constant	Text String
Log Text	"A DAT DUMP process is now waiting for additional files to close for a date other than the current date."	Information regarding tape space error
device name	Symbolic Text	The name of the device on which the event occurred (for example CT02)

DRM603 (end)

Action

When a DRM603 log report occurs, the operating company personnel should determine if the dump process should be stopped. This will depend on whether multiple applications belong to the group identification specified for the dump. For example, if there are multiple billing streams registered for DRM, it is possible that one stream will be finished and produce the DRM603 log before the other stream has closed its last file. No immediate action is required.

Related OM registers

NONE

Additional information

NONE

11 ESA level commands

This chapter provides an overview of the ESA level. This chapter also provides detailed information on new or changed commands in the ESA level.

The following table alphabetically lists the commands available at the ESA level.

Table 11-1

Command
loadfw
querypm

Description

Use the ESA level of the MAP to enable or disable the ESA processor.

How to access the ESA level

Access the ESA level from the CI environment:

```
> mapci;mtc;pm;post esa <esa_no>
```

How to return to the CI

Return to the CI environment:

```
> quit all
```

MAP display

The following figure shows an example of the MAP display at the ESA level.

Figure 11-1 Example of a MAP display at the ESA level

CM	MS	IOD	Net	PM	CCS	Lns	Trks	Ext	APPL
CM Flt	Clock	NO AMA	LOAD	2ESA	2 RS	.	47 CC	.	.
M	M	*C*		*C*	*C*		*C*		
ESA				SysB	ManB	OffL	CBsy	ISTb	InSv
0 QUIT		PM		6	2	5	9	61	49
2 Post_		ESA		2	0	0	0	2	1
3 ListSet									
4									
5 Trnsl	RLCM	ESA	1	ISTb					
6 Tst									
7 Bsy									
8 RTS									
9 OffL									
10 LoadPM									
11 Disp_									
12 Next_									
13									
14 QueryPM									
15									
16									
17									
18									

Links_00S: CSide 0

loadfw

Type

The loadfw command is a menu unlisted command.

Target

The command target for the loadfw command is ALL.

Description

This command enables operating company personnel to load and activate firmware for an RLCM with the NTMX45 ESA processor card. If operating company personnel does not supply the file name, the ESA processor loads the file name provisioned in field E2LOAD of table XESAINV.

Release history**NA012**

Feature 59008344 introduced firmware download for the NTMX45 ESA processor.

Limitations and restrictions

The following limits and restrictions apply to the loadfw command:

- This command is valid for an ESA supplied and provisioned for an NTMX45 ESA processor card.
- An ESA must be ManB for parameter UPGRADE to function.

Syntax

The loadfw command syntax is as follows:

```
loadfw    [<FILE> STRING]
          [<UPGRADE> {UPGRADE}]
          [<NOWAIT> {NOWAIT}]
          [<ALL> {ALL}]
```

loadfw (continued)

The following table describes the parameters and variables of the loadfw command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
FILE	string	This is the load file for the ESA processor to load. Note: If operating company personnel do not supply a file name, the ESA processor retrieves the file name provisioned in field E2LOAD of table XESAINV.
UPGRADE	N/A	This parameter activates the firmware file.
NOWAIT	N/A	This parameter enables the MAP terminal to accept other commands while the file download completes.
ALL	N/A	This parameter executes the loadfw command on all peripheral modules (PM) in the post set that are the same type as the PM type at the MAP terminal.

Example

The following table provides an example of the loadfw command.

Command example

Command:	> loadfw
Description of task:	Retrieve the firmware load file from the central controller.
MAP response:	LoadFW Passed
Explanation:	The ESA processor retrieved the firmware file.

Responses

The following table explains possible responses to the loadfw command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> loadfw upgrade
MAP response:	LoadFW Passed
Meaning:	The ESA processor activated the firmware file.

loadfw (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Actions:	There are no actions.
Command:	> loadfw upgrade
MAP response:	Not submitted as state no longer MANB
Meaning:	The ESA was not in a ManB state.
Actions:	Busy the ESA and enter the command again.
Command:	> loadfw <filename>
MAP response:	Load file <filename> not found in symbol table
Meaning:	The central controller cannot locate the fimware file name supplied.
Actions:	Check load file name and enter the command again.

12 FTPCI level commands

This chapter provides an overview of the FTP level. This chapter also provides detailed information on new or changed commands in the FTP level.

The following table alphabetically lists the commands available at the FTPCI level.

Table 12-1

Command
autolrecl
commandtimeout
get
put
ls

Description

Use the File transfer protocol (FTPCI) program to access the FTP commands.

How to access the FTPCI level

Access the FTPCI level from the CI environment:

```
>ftp
```

How to return to the CI

Return to the CI environment:

```
> quit
```

MAP display

The following figure shows an example of the MAP display of the FTPCI level.

Figure 12-1 Example of a MAP display of the FTPCI level



ftp>

autolrecl

Type

The autolrecl command is a nonmenu command.

Target

The command target for the autolrecl command is ALL.

Description

The command is a subcommand of the FTPCI command set. Use this command to activate or deactivate automatic record length detection of a file being transferred with the get command.

Release history**TL12**

Feature 59010371 (FTP Extended Functionality) introduces the autolrecl command.

Limitations and restrictions

The following limits and restrictions apply to the autolrecl command:

- affects only get and mget subcommands of FTPCI
- applicable only on the DMS FTP client when performing file retrievals

Syntax

The autolrecl command syntax is as follows:

```
autolrecl    <ON>  
             <OFF>
```

The following table describes the parameters and variables of the autolrecl command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
on		Toggle the entry to ON to activate the system to automatically detect the record length of the file being transferred with the get command.
off		Toggle the entry to OFF and the system will not detect the record length of the file being transferred with the get command.

autolrecl (end)

Example

The following table provides an example of the autolrecl command.

Command example

Command:	> autolrecl ON
Description of task:	Activate the system to automatically detect the record length of the file being transferred with the get command.
MAP response:	autolrecl set to ON
Explanation:	The system automatically determines the record length of the file from the filename extension.

Responses

The following table explains possible responses to the autolrecl command.

MAP responses with associated meanings and actions

Command:	>autolrecl OFF
MAP response:	autolrecl set to OFF
Meaning:	The system will not detect the logical record length of the file being transferred with the get command
Actions:	None.
Command:	>autolrecl ON
MAP response:	autolrecl set to ON
Meaning:	The system will automatically detect the logical record length of the file from the filename extension
Actions:	None.
Command:	>autolrecl ON
MAP response:	Error: AutoLRecL could not be changed.
Meaning:	For an unknown reason, the autolrecl could not be changed.
Actions:	Repeat the command.

commandtimeout

Type

The commandtimeout command is a nonmenu command.

Target

The command target for the commandtimeout command is ALL.

Description

Use commandtimeout to change the FTP default timeout value and to monitor the idle time between commands in an FTP session.

Release history**TL12**

Feature 59010371 (FTP Extended Functionality) introduces the commandtimeout command.

Limitations and restrictions

The commandtimeout command changes the default timeout value for users that are added after this command is introduced. Users that are added before this command was introduced do not have their timeout values changed.

Syntax

The commandtimeout command syntax is as follows:

```
commandtimeout <timeout value>
```

The following table describes the parameters and variables of the commandtimeout command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
timeout value	0 to 255	Time in minutes until the user's session expires. Note: When the timeout value is set to 0, the timeout value is forever.

commandtimeout (continued)

Example

The following table provides an example of the commandtimeout command.

Command example

Command:	> commandtimeout 0
Description of task:	Change the default timeout value to forever.
MAP response:	Default command timeout value has been changed to forever.
Explanation:	The default command timeout value has been changed to forever.

Responses

The following table explains possible responses to the commandtimeout command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>commandtimeout
MAP response:	Default command timeout value is XX mins.
Meaning:	No parameters are entered with the command.
Actions:	None.
Command:	>commandtimeout abcd
MAP response:	EITHER incorrect optional parameter(s) OR too many parameters. Failed to update default command timeout value. Current value is XX mins.
Meaning:	This response indicates that the user has entered the command parameters incorrectly, either by going beyond the timeout range or by having too many parameters.
Actions:	Repeat the command using the proper format.
Command:	>commandtimeout 0
MAP response:	Default command timeout value has been changed to forever.
Meaning:	This response indicates the commandtimeout command is entered with a timeout value of 0. A timeout set to 0 indicates the timeout is forever.
Actions:	None.
Command:	>commandtimeout 23
MAP response:	Default command timeout value has been changed to 23 mins.

commandtimeout (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	The default command timeout is changed to 23 minutes.
Actions:	None.

get

Type

The get command is a nonmenu command.

Target

The command target for the get command is ALL.

Description

Use this command to get a file from a remote host.

Release history

TL12

Feature 59010371 (FTP Extended Functionality) modifies the get command by providing the ability to use only one parameter to transfer the file.

Limitations and restrictions

The get command has no limits or restrictions.

Syntax

The get command syntax is as follows:

```
get    <remote file name>  
       <local file name>
```

The following table describes the parameters and variables of the get command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
remote filename	character	The name of the file on the remote system. Enclose the filename in single quotes.
local filename	character	Optional. The name of the file into which the remote file is copied locally. If this parameter is left blank, the remote filename is used as the local filename.

Example

The following table provides an example of the get command.

Command example

Command:	> get 'tester'
Description of task:	Use the get command and one parameter to transfer a file from a remote system to the local system
MAP response:	226 Transfer complete. 4208 bytes transferred in 0 hrs.0 mins.1 sec.437 ms.(51429 Bps)
Explanation:	The file named tester is taken from the remote system and transferred to a file named TESTER on the local system.

Responses

There is no change to the get command responses.

ls

Type

The ls command is a nonmenu command.

Target

The command target for the ls command is ALL.

Description

Use the ls command to list the contents of a remote directory

Release history

TL12

Feature 59010371 (FTP Extended Functionality) adds the functionality of using the ls command with the forward slash (/) to list available active disk volumes.

Limitations and restrictions

The ls command has no limits or restrictions.

Syntax

The ls command syntax is as follows:

```
ls    <remote dir>
```

The following table describes the parameters and variables of the ls command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
remote dir	character	Optional. The name of the remote directory.

Example

The following table provides an example of the ls command.

Command example (Sheet 1 of 2)

Command:	> ls '/'
Description of task:	List the available active disk volumes on the DMS-100 switch.

Command example (Sheet 2 of 2)

MAP response:	200 PORT command okay 150 File status okay; about to open data connection. S00DIMAGE S00PMLOADS S00DPERM S00DTEMP 226 Request successful. Closing data connection.
Explanation:	The ls command used with the forward slash (/) lists the available active disk volumes.

Responses

There is no change to the ls command responses.

put

Type

The put command is a nonmenu command.

Target

The command target for the put command is ALL.

Description

Use this command to send a file to a remote host.

Release history

TL12

Feature 59010371 (FTP Extended Functionality) modifies the put command by providing the ability to use one parameter to transfer the file.

Limitations and restrictions

The put command has no limits or restrictions.

Syntax

The put command syntax is as follows:

```
put    <local file name>  
       <remote file name>
```

The following table describes the parameters and variables of the put command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
local filename	character	The name of the file on the local system. Enclose the filename in single quotes.
remote filename	character	Optional. The name of the file that the local file is copied remotely. If this parameter is left blank, the local filename is used as the remote filename.

Example

The following table provides an example of the put command.

Command example

Command:	> put tester
Description of task:	Use the put command and one parameter to transfer a file from a local system to the remote system
MAP response:	226 Transfer complete.4208 bytes transferred in 0 hrs.0 mins.1 sec.437 ms.(51429 Bps)
Explanation:	The file named TESTER is taken from the local system and transferred to a file named TESTER on the remote system.

Responses

There is no change to the put command responses.

13 IDT level commands

This chapter provides an overview of the integrated digital terminal (IDT) level. This chapter also provides detailed information about new or changed commands in the IDT level. The following table alphabetically lists the commands available at the IDT level.

Table 13-1 IDT level commands

Command
bsy
trnsI
querypm

Description

Use the integrated terminal level of the MAP to maintain message channels between the host peripheral module (PM) and the access vehicle.

How to access the IDT level

Access the IDT level from the CI environment:

```
> mapci;mtc;pm post idt
```

How to return to the CI

Return to the CI environment:

```
> quit all
```

MAP display

The following figure shows an example of the MAP display of the IDT level.

Figure 13-1 Example of a MAP display of the IDT level

CM	MS	IOD	Net	PM	CCS	Lns	Trks	Ext	APPL
CM Flt	.	AMA B	.	8 IDT	.	.	C	1Crit	.
M		*C*		*C*					*C*
IDT				SysB	ManB	OffL	CBsy	ISTb	
InSv									
0 Quit		PM		8	1	1	0	16	12
2 Post_		IDT		8	0	1	0	4	6
3 Listset									
4		IDT 200	SysB		Links_00S:	1	RDT Type:	ICB	
5 Trnsl									
6									
7 Bsy									
8 RTS									
9 OffL									
10									
11 Disp_									
12 Next									
13									
14 QueryPM									
15 RDTalarm									
16 PPS_									
17 Cont_									
18 LoopBk_									
<user id>									
Time 15:04									

bsy

Type

The bsy command is a menu listed command.

Target

The command target for the bsy command is ALL.

Description

This command manually busies (ManB) the IDT or a link to an IDT. Operating company personnel can busy a link to an integrated channel bank (ICB), provided it is not the last InSv link to the ICB.

Release history**NA012**

Feature 59008693 enabled the bsy command to busy links to ICBs.

Limitations and restrictions

The following limits and restrictions apply to the bsy command.

- operating company personnel can not busy the last InSv link to an ICB
- an IDT must have one of the following states
 - in-service (InSv)
 - in-service trouble (ISTb)
 - system busy (SysB)
 - offline (Offl)
 - C-side busy (CBsy)PM

Syntax

The bsy command syntax is as follows:

```
bsy <DEVICE> {UNIT <UNIT_NO> {0 to 1}
               [<CMR> {CMR}],
               PM [<CMR> {CMR}],
               LINK <PSIDE_LINK> {0 TO 53},
               INACTIVE}
               [<FORCE> {FORCE}]
               [<NOWAIT> {NOWAIT}]
               [<ALL> {ALL}]
```

bsy (end)

The following table describes the parameters and variables of the bsy command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
LINK	0 to 53	This parameter applies the bsy command to a specified P-side link.

Example

The following table provides an example of the bsy command.

Command example

Command:	bsy link 35
Description of task:	Busy link number 35 to the IDT.
MAP response:	bsy link 35 SMA2 0 Link 35 Bsy Passed
Explanation:	P-side link to the IDT is busied.

Responses

The following table explains possible responses to the bsy command.

MAP responses with associated meanings and actions

Command:	bsy link 34
MAP response:	bsy link 35 SMA2 0 Link 35 Bsy Passed
Meaning:	P-side link to the IDT is busied.
Actions:	RTS the link.

querypm

Type

The querypm command is a menu listed command.

Target

The command target for the querypm command is ALL.

Description

When the user enters the querypm command, the system provides the following information.

- PM type and number
- internal number, for advanced tools
- node number, used for advanced tools
- SMA2 name and number
- RDT name, the value the user enters in table RDTINV
- the last three lines of the MAP response provide the
 - number of lines connected to a posted IDT
 - total number of lines defined for the host SMA2
 - total number of lines available for the host SMA2

Release history**NA012**

Added change to ISTb reasons for the ICB.

Limitations and restrictions

The querypm command has no limits or restrictions.

Syntax

The querypm command syntax is as follows:

```
querypm <OPTIONS> {FTL}
```

querypm (end)

The following table describes the parameters and variables of the querypm command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
OPTION	None	The IDT does not support any options.
FLT	flt	The system identifies the state of the IDT and displays faults.

Example

The following table provides an example of the querypm command.

Command example

Command:	querypm flt
Description of task:	Display information about the IDT and faults.
MAP response:	Link 1: port is closed
Explanation:	This response warns operating company personnel that C-side link 1 of the ICB is out of service.

Responses

The following table explains possible responses to the querypm command.

MAP responses with associated meanings and actions

Command:	querypm flt
MAP response:	Link 1: port is closed Link 2: port is closed
Meaning:	C-side links 1 and 2 of the Multi-link ICB are out of service.
Actions:	Perform appropriate action to restore the C-side links to InSv (in service) state.

trns1

Type

The trns1 command is a menu listed command.

Target

The command target for the trns1 command is ALL.

Description

The trns1 command displays the following information.

- SMA2 name and number
- RDT name and number
- SMA2 P-side link number
- RDT link number
- capabilities (Cap) of the link
- status of the link

Release history

CSP18/SN05

Feature 59038361, CM Provisioning & Maintenance Support for DS-512. The trns1 command was modified for tracing C-side paths that refer to the element manager for a DS-512 interface. Command modification is implemented when performing maintenance on XPMs connected to the DS-512 interface.

NA012

Added information for the ICB.

Limitations and restrictions

There are modified responses for subtypes TRNSL C, TRNSL MSG C, and TRNSL EMSG C when the posted XPM is connected to an MGC9000-resident DS512 interface rather than an ENET. Otherwise the command and its responses are unchanged.

Syntax

The trns1 command syntax is as follows:

```
trns1 <OPTIONS> {CHAN}
```

The following table describes the parameters and variables of the trns1 command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
OPTION	C [<CSIDE LINK> {0 TO 19}],	Display the status of C-side link(s) of the posted XPM. The response to this command is modified for XPMs connected to an MG9000-resident DS512 interface
	P [<PSIDE LINK> {0 TO 53}],	Display the status of P-side link(s) of the posted XPM. The response to this command is not modified
	MSG [<MESSAGE LINK> {C,P}],	Display the status of C-side or P-side messaging link(s) for the posted XPM. The response to this command is modified when the C option is selected for XPMs connected to an MG9000-resident DS512 interface
	EMSG [<EXTENDED MESSAGE LINK> {C}]	Display the status of C-side extended messaging link(s) for the posted XPM. The response to this command is modified for XPMs connected to an MG9000-resident DS512 interface
CHAN	None	Displays the SMA2 name, external number, SMA2 P-side port, and the channel on that port where the control channel associates. Note: The ICB does support any options or parameters.

Examples

The following table provides an example of the trns1 command.

Command example

Command:	trns1
Description of task:	Translating SMA2 0 links to RDT1 200 0
MAP response:	Link 32;RDT Link 1;Cap MS;Status:OK ;MsgCond:OPN Link 33;RDT Link 2;Cap MS;Status:OK ;MsgCond:OPN
Explanation:	Two links to the IDT are open.

The following table provides an example of the TRNSL C command for an externally connected XPM.

Command example

Command:	> TRNSL C
Description of task:	Translate the C-side link information when the posted XPM is connected to an MG9000-resident DS-512 interface rather than an ENET. Trnsl LINK 0: GWC21 0;Cap MS;Status:OK ;MsgCond:OPN,Restrict LINK 1: GWC21 1;Cap MS;Status:OK ;MsgCond:OPN,Restrict LINK 2: GWC21 **;Cap S;Status:OK LINK 3: GWC21 **;Cap S;Status:OK LINK 4: GWC21 2;Cap MS;Status:OK ;MsgCond:OPN,Restrict LINK 5: GWC21 3;Cap MS;Status:OK ;MsgCond:OPN,Restrict ...etc... LINK 31: GWC21 **;Cap S;Status:OK
MAP response:	Please refer to the DS512 Interface EM for all link maintenance commands.

The following table provides an example of the TRNSL MSG C (or TRNSL EMSG C) command for an externally connected XPM.

Command example

Command:	TRNSL MSG C
Description of task:	Translate the C-side messaging link information when the posted XPM is connected to an MG9000-resident DS-512 interface rather than an ENET.
MAP response:	TRNSL on C-side is not supported for XPMs with the EXTDS512 optional attribute. Please refer to the DS512 Interface EM for link status and information.

Responses

The following table explains possible responses to the trnsl command.

MAP responses with associated meanings and actions

Command:	trnsl
MAP response:	Link 32;RDT Link 1;Cap MS;Status:OK; ;MsgCond:OPN
Meaning:	The capacity for the link is messaging (M) and speech (S). The status of the link is okay. The link is open and can carry traffic.
Actions:	There are no actions.

MAP responses with associated meanings and actions

Command:	TRNSL MSG C or TRNSL EMSG C
MAP response:	TRNSL on C-side links is not supported for XPMs with the EXRDS512 optional attribute. Please refer to the DS512 Interface EM for link status information.N
Meaning:	The MAP does not have the status information on the C-side links of the posted XPM. They are maintained by the element manager for the DS512 interface. Use the element manager to collect the link status information.
Actions:	Go to the element manager for the DS512 interface that is connected to the posted XPM. The link status information is maintained by that element manager.

14 IPGW level commands

This chapter provides an overview of the IPGW level. This chapter also provides detailed information on new or changed commands in the IPGW level.

The following table alphabetically lists the commands available at the IPGW level.

Table 14-1

Command
ABTK
Bsy
LoadPMQ
Next
OffL
PMReset
Post_
QueryPM
Quit
RTS
Spares
Trnsl
Tst

Description

The IP Gateway (IPGW) level of the MAP provides for maintenance level activities on IPGWs.

How to access the IPGW level

Access the IPGW level from the CI environment:

```
> mapci;mtc;pm;post ipgw all
```

How to return to the CI

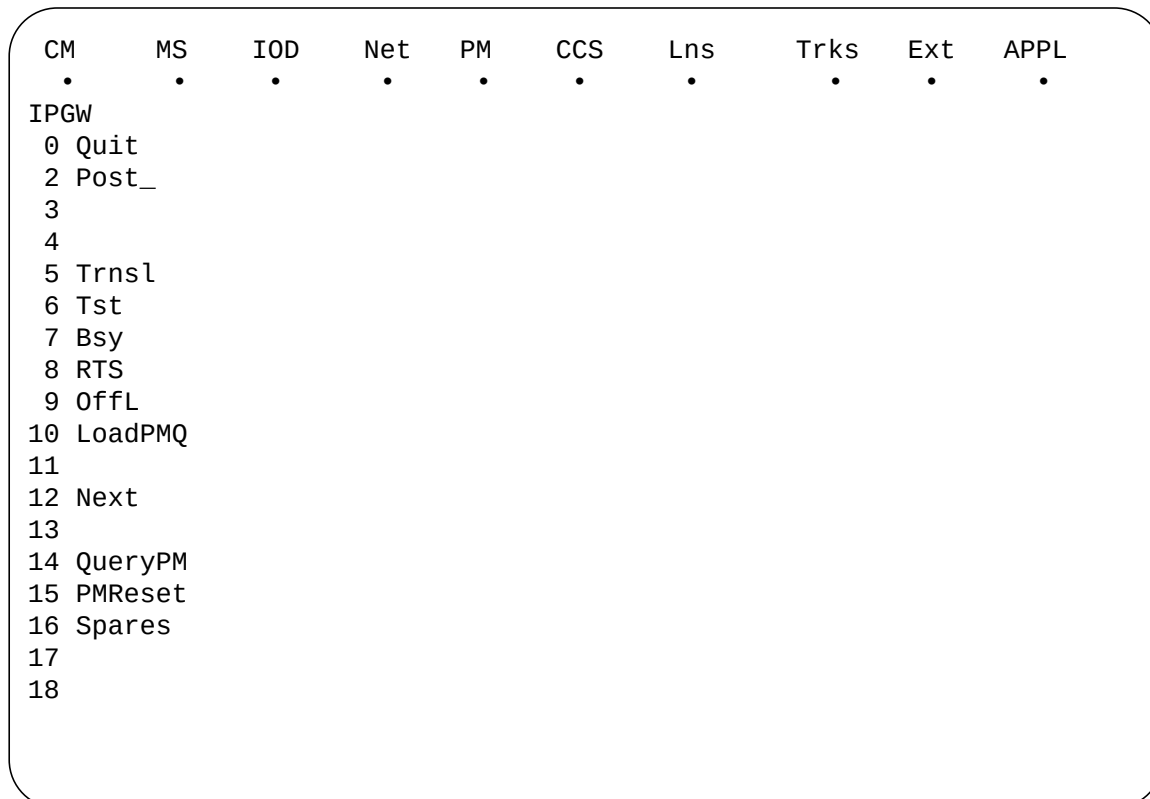
Return to the CI environment:

```
> quit all
```

MAP display

The following figure shows an example of the MAP display of the IPGW level.

Figure 14-1 Example of a MAP display of the IPGW level



CM	MS	IOD	Net	PM	CCS	Lns	Trks	Ext	APPL
.	.	.	.	.	.	.	.	.	.
IPGW									
0 Quit									
2 Post_									
3									
4									
5 Trns1									
6 Tst									
7 Bsy									
8 RTS									
9 OffL									
10 LoadPMQ									
11									
12 Next									
13									
14 QueryPM									
15 PMReset									
16 Spares									
17									
18									

abtk

Type

The abtk command is a menu unlisted command.

Target

The command target for the abtk command is ALL.

Description

The use of this command on a peripheral module (PM) aborts all active tasks on the PM. The abtk command returns control of the IPGW to the user. Use this command during trouble shooting.

Release history**NA011**

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the querypm command.

Limitations and restrictions

The abtk command has no limitations or restrictions.

Syntax

The abtk command syntax is as follows:

```
abtk
```

The following table describes the parameters and variables of the abtk command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
none		

abtk (end)

Example

The following table provides an example of the abtk command.

Command example

Command:	> abtk
Description of task:	The user uses the abtk command to regain control of command input to the IPGW.
MAP response:	abtk
Explanation:	The MAP cursor returns to the user. All maintenance activity on the IPGW ceases.

Responses

The following table explains possible responses to the abtk command.

MAP responses with associated meanings and actions

Command:	> abtk
MAP response:	abtk
Meaning:	The abort task command has been carried out. All maintenance activity on the IPGW has ceased. The MAP cursor has been returned to the user.
Actions:	None

bsy

Type

The bsy command is a menu listed command.

Target

The command target for the bsy command is ALL.

Description

The bsy command is used to change the state of an IP Gateway (IPGW) to the manually busy (ManB) state.

Release history**NA013**

Feature A59007761, Gateway Survivability Phase 1, added the NOSPRE option to the bsy command.

Feature 590146821, added the DRAIN option to the bsy command.

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the bsy command.

Limitations and restrictions

The bsy command has no limitations or restrictions.

Syntax

The bsy command syntax is as follows:

bsy

bsy (continued)

The following table describes the parameters and variables of the bsy command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
nospare	N/A	When used with the bsy command, the nospare option allows a bsy to be performed without triggering a takeover.
drain	N/A	This option is valid only for TOPS IP gateways. This option provides a controlled method for bringing a TOPS IPGW out of service. After the DRAIN command is issued on an inservice (INSV) gateway, all idle (IDL) trunks are marked call failure signal (CFL). Call processing busy (CPB) trunks are marked as deloading. When the call associated with a deloading trunk completes, the trunk is marked CFL. When all trunks associated with a gateway are CFL, the gateway is made manual busy (ManB). In effect, the DRAIN command prevents future call originations on a gateway, but allows calls in progress to remain up until completion.

Example

The following table provides an example of the bsy command.

Command example

Command:	> bsy
Description of task:	User changes the state of the posted IP Gateway to ManB.
MAP response:	bsy IPGW GWIP 06 0 Bsy Passed
Explanation:	The state of the IPGW has changed to ManB. Note: GWIP is a site name. The site name varies and reflects the datafill for the posted IP Gateway.

Responses

The following table explains possible responses to the bsy command.

MAP responses with associated meanings and actions

Command:	> bsy
MAP response:	bsy IPGW GWIP 06 0 Bsy Passed
Meaning:	System changes the state of the posted IPGW to ManB. Note: The response includes the site name and IP number for the posted IP.
Actions:	N/A
Command:	> bsy
MAP response:	bsy 0 Calls on IP will be affected Please confirm ("YES", "Y", "NO", "N"):
Meaning:	The user has requested that an IPGW that is inservice be busied. The system determines the number of calls in process and advises the user of these calls. The system requires the user to confirm whether or not to complete the bsy command. The user must enter one of the following: "YES", "Y", "NO", "N".
Actions:	Enter one of the following: "YES", "Y", "NO", "N".

loadpmq

Type

The loadpmq command is a menu listed command.

Target

The command target for the loadpmq command is ALL.

Description

The loadpmq command generates a query for the posted IP Gateway to determine the status of the autoload function. The IP Gateway responds with a message indicating loading success, loading in progress, loading failed, or loading passed and whether or not the IPGW has a valid load.

Release history

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the loadpmq command.

Limitations and restrictions

The loadpmq command has no limitations or restrictions.

Syntax

The loadpmq command syntax is as follows:

LoadPMQ

The following table describes the parameters and variables of the loadpmq command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
none		

loadpmq (end)**Example**

The following table provides an example of the loadpmq command.

Command example

Command:	> loadpmq
Description of task:	User queries the load status of the posted IP Gateway.
MAP response:	LoadPMQ LOAD QUERY HAS BEEN SUBMITTED... IPGW GWIP 10 0 PMReset/LoadPM Passed THE IPGW CONTAINS A VALID LOAD.
Explanation:	The IP Gateway's load is valid.

Responses

The following table explains possible responses to the loadpmq command.

MAP responses with associated meanings and actions

Command:	> loadpmq
MAP response:	LoadPMQ LOAD QUERY HAS BEEN SUBMITTED... IPGW GWIP 10 0 PMReset/LoadPM Passed THE IPGW CONTAINS A VALID LOAD.
Meaning:	The load of the posted IP Gateway has been queried and found to be valid.
Actions:	none
Command:	> loadpmq
MAP response:	LOAD QUERY HAS BEEN SUBMITTED... IPGW GWIP 6 0 PMReset/LoadPM Failed No acknowledgment from PM.
Meaning:	Indicates that system resources are unavailable.
Actions:	Re-enter command. If same response is received, follow normal trouble shooting procedures.

next

Type

The next command is a menu listed command.

Target

The command target for the next command is ALL.

Description

The next command places the next peripheral module (PM) in the posted set or the first PM of the next PM-type post set in the MAP post position.

Release history

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the next command.

Limitations and restrictions

The next command has no limitations or restrictions.

Syntax

The next command syntax is as follows:

Next [<PM TYPE> {PMTYPE}]

The following table describes the parameters and variables of the next command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
PM type	valid PM type	The name of a valid PM type

Example

The following table provides an example of the next command.

Command example (Sheet 1 of 2)

Command:	> next
Description of task:	Request system to place the next member of the posted PM set in the post position.

next (end)

Command example (Sheet 2 of 2)

MAP response:	Next
Explanation:	The next member of the posted PM set appears in the post position.

Responses

The following table explains possible responses to the post command.

MAP responses with associated meanings and actions

Command:	> next
MAP response:	Next
Meaning:	The next member of the posted PM set is in the post position.
Actions:	None
Command:	> next
MAP response:	End of post set PM:
Meaning:	There are no more members in the posted set.
Actions:	None

offl

Type

The offl command is a menu listed command.

Target

The command target for the offl command is ALL.

Description

The offl command line changes the state of the IP Gateway (IPGW) to the off line (Offl) state.

Release history

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance introduced the offl command.

Limitations and restrictions

An IPGW must first be made manually busy (ManB) before the offl command can be used on it.

Syntax

The offl command syntax is as follows:

```
offl
```

The following table describes the parameters and variables of the offl command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
none		

Example

The following table provides an example of the offl command.

Command example (Sheet 1 of 2)

Command:	> offl
Description of task:	The user wants to change the state of the IPGW from ManB to Offl.

offl (end)**Command example (Sheet 2 of 2)**

MAP response:	Offl IPGW GWIP 06 0 Offl Passed
Explanation:	The system has placed the IPGW in the Offl state.

Responses

The following table explains possible responses to the offl command.

MAP responses with associated meanings and actions

Command:	> offl
MAP response:	Offl IPGW GWIP 06 0 Offl Passed
Meaning:	The has successfully placed the IPGW in the Offl state.
Actions:	None
Command:	> offl
MAP response:	Offl Request Invalid: IPGW GWIP 10 1 is InSv
Meaning:	The IPGW is in improper state to be set to the Offl state.
Actions:	Use the bsy command to change the state of IPGW to ManB and then off line the IPGW using the Offl command.

pmreset

Type

The pmreset command is a menu listed command.

Target

The command target for the pmreset command is ALL.

Description

The pmreset command causes the IP Gateway (IPGW) to drop to ROM and automatically initiate reloading. The pmreset command can be used to determine if the IPGW successfully loads or not. The pmreset command can be used when encountering difficulty in loading an IPGW.

Release history

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the pmreset command.

Note: This command can take a few minutes to execute. The command will timeout after 10 minutes. A shorter timeout indicates that the system resources are unavailable. In this case, re-enter the command.

Limitations and restrictions

The pmreset command has no limitations or restrictions.

Syntax

The pmreset command syntax is as follows:

```
pmreset
```

The following table describes the parameters and variables of the pmreset command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
None		

pmreset (end)**Example**

The following table provides an example of the pmreset command.

Command example

Command:	> pmreset
Description of task:	User uses pmreset command to cause IPGW to be automatically reloaded.
MAP response:	<pre>pmreset WARNING: PMReset WILL CAUSE THE IPGW TO DROP TO ROM AND AUTOMATICALLY INITIATE RE-LOADING. LOAD STATUS CAN SUBSEQUENTLY BE QUERIED USING THE QUERYPM COMMAND Please confirm ("YES", "Y", "NO", or "N"): Y PMReset INITIATED. IPGW GWIP 06 1 PMReset/LoadPM Passed</pre>
Explanation:	The user has requested a pmreset on an IPGW. The IPGW has been successful reset and re-loaded.

Responses

The following table explains possible responses to the pmreset command.

MAP responses with associated meanings and actions

Command:	> pmreset
MAP response:	<pre>pmreset WARNING: PMReset WILL CAUSE THE IPGW TO DROP TO ROM AND AUTOMATICALLY INITIATE RE-LOADING. LOAD STATUS CAN SUBSEQUENTLY BE QUERIED USING THE QUERYPM COMMAND Please confirm ("YES", "Y", "NO", or "N"): Y PMReset INITIATED. IPGW GWIP 06 1 PMReset/LoadPM Passed</pre>
Meaning:	The user has requested a pmreset on an IPGW. The IPGW has been successfully reset and re-loaded.
Actions:	none

post

Type

The post command is a menu listed command.

Target

The command target for the post command is ALL.

Description

The post command is used to post a specified IP Gateway (IPGW) or a IPGW group for maintenance purposes.

Release history

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the post command.

Limitations and restrictions

The post command has no limitations or restrictions.

Syntax

The post command syntax is as follows:

```
post    [<PMtype>...{IPGW    [<ALL> {All}]
                                     [<Site> STRING]
                                     [<Unit> {0 TO 9}]
                                     [<...> {0 TO 0}]}
        [<State>...{SysB,
                    ManB,
                    OffL,
                    CBsy,
                    ISTb,
                    InSv}]
```

The following table describes the parameters and variables of the post command.

Command parameter and variable descriptions (Sheet 1 of 2)

Parameters and variables	Value	Description
pmtype	IPGW	IP Gateway cards
all	N/A	create a posted set of all IPGWs
site	site name	site name as datafilled in table SITE

post (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

Parameters and variables	Value	Description
Unit	0 to 9	IPGW number
state	SysB, ManB, OffL, CBsy, ISTb, InSv	status of IPGWs

Example

The following table provides an example of the post command.

Command example

Command:	> post ipgw all	
Description of task:	Command input creates a posted set of all IPGWs.	
MAP response:	IPGW GWIP 10 1 InSv	Links_OOS: Cside 0 PRIMARY FOR IPGW GWIP 10 1
	POST:	
Explanation:	A posted set of all IPGWs has been created with the first member of the set in the post position.	

Responses

The following table explains possible responses to the post command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> post ipgw 6 0	
MAP response:	IPGW GWIP 6 0 InSv	Links_OOS: Cside 0 PRIMARY FOR IPGW GWIP 11 1
	POST:	
Meaning:	IPGW GWIP 6 0 has been placed in the post position of the MAP.	
Actions:	None	
Command:	> post ipgw all	

post (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

MAP response:	IPGW GWIP 10 1 InSv	Links_OOS: Cside 0 PRIMARY FOR IPGW GWIP 10 1
	POST:	
Meaning:	A posted set of all IPGWs has been created.	
Actions:	None	
Command:	> post ipgw manb	
MAP response:	IPGW GWIP 10 1 InSv	Links_OOS: Cside 0 PRIMARY FOR IPGW GWIP 10 1
	POST:	
Meaning:	A posted set of all IPGWs with a status of ManB has been created.	
Actions:	None	

querypm

Type

The querypm command is a menu listed command.

Target

The command target for the querypm command is ALL.

Description

The querypm command is used to obtain the following types of information from the IP Gateway (IPGW):

- overall node status
- whether or not load status is valid
- configuration of the IPGW
- the nature of an inservice trouble (ISTB)

Note: To determine the nature of an inservice trouble for an IPGW, the user must enter the querypm command with the parameter flt.

Release history**NA011**

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the querypm command.

Limitations and restrictions

The querypm command has no limitations or restrictions.

Syntax

The querypm command syntax is as follows:

```
querypm    [<option> {FLT}]
```

The following table describes the parameters and variables of the querypm command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
FLT	N/A	Used with the querypm command allows the user to determine the cause of an ISTB state of an IPGW.

querypm (continued)

Example

The following table provides an example of the querypm command.

Command example

Command:	> querypm																
Description of task:	User uses querypm to obtain miscellaneous information about the IPGW.																
MAP response:	QueryPM PM Type: IPGW PM Int: No.: 7 Node_No: 85 IPGW Card Location Information: <table><tr><td>Site</td><td>Flr</td><td>RPos</td><td>Bay_id</td><td>Shf</td><td>Description</td><td>Slot</td><td>EqPEC</td></tr><tr><td>HOST</td><td>01</td><td>AA19</td><td>LTEI 001</td><td>65</td><td>LTC : 002</td><td>04</td><td>7X07</td></tr></table> LOAD STATUS: IPGW CONTAINS A VALID LOAD.	Site	Flr	RPos	Bay_id	Shf	Description	Slot	EqPEC	HOST	01	AA19	LTEI 001	65	LTC : 002	04	7X07
Site	Flr	RPos	Bay_id	Shf	Description	Slot	EqPEC										
HOST	01	AA19	LTEI 001	65	LTC : 002	04	7X07										
Explanation:	The MAP displays miscellaneous information about the IPGW as a result of the querypm command.																

Responses

The following table explains possible responses to the querypm command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> querypm																
MAP response:	QueryPM PM Type: IPGW PM Int: No.: 7 Node_No: 85 IPGW Card Location Information: <table><tr><td>Site</td><td>Flr</td><td>RPos</td><td>Bay_id</td><td>Shf</td><td>Description</td><td>Slot</td><td>EqPEC</td></tr><tr><td>HOST</td><td>01</td><td>AA19</td><td>LTEI 001</td><td>65</td><td>LTC : 002</td><td>04</td><td>7X07</td></tr></table> LOAD STATUS: IPGW CONTAINS A VALID LOAD.	Site	Flr	RPos	Bay_id	Shf	Description	Slot	EqPEC	HOST	01	AA19	LTEI 001	65	LTC : 002	04	7X07
Site	Flr	RPos	Bay_id	Shf	Description	Slot	EqPEC										
HOST	01	AA19	LTEI 001	65	LTC : 002	04	7X07										
Meaning:	The MAP displays miscellaneous information about the IPGW as a result of the querypm command.																
Actions:	None																
Command:	> querypm flt																
MAP response:	QueryPM flt IPGW System Busy Reason: IOGW P-side Alarm : CRITICAL																

querypm (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	The querypm flt command reveals that the IPGW has an invalid load, which is why its status is ISTB.
Actions:	Busy the IPGW and use the PMRESET command to initiate a reset and re-loading of the IPGW.

quit

Type

The quit command is a menu listed command.

Target

The command target for the quit command is ALL.

Description

The quit command returns the user to the previous MAP level or if used with the parameter all, returns the user to the command interpreter (CI) level of the MAP.

Release history

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the quit command.

Limitations and restrictions

The quit command has no limitations or restrictions.

Syntax

The quit command syntax is as follows:

```
quit    <nlevels | incname | ALL>
```

The following table describes the parameters and variables of the quit command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
nlevels	0–4	The number of a previous MAP level that the user wants to return to.
incname	CM, MS, IOD, Net, PM, CCS, Lns, Trks, Ext, APPL	The name of one of the sublevels of the DMS switch. The QUIT command used with one of the listed values takes the user to that level of the MAP.
ALL	N/A	Quits out of all MAP levels. Returns the user to the CI level of the MAP.

quit (end)

Example

The following table provides an example of the quit command.

Command example

Command:	> quit all
Description of task:	Quit out of all levels of the MAP
MAP response:	CI:
Explanation:	Returns the user to the CI level of the MAP.

Responses

The following table explains possible responses to the quit command.

MAP responses with associated meanings and actions

Command:	> Quit
MAP response:	PM:
Meaning:	Returns the user to the peripheral module (PM) level of the MAP.
Actions:	N/A
Command:	> Quit 2
MAP response:	MTC:
Meaning:	Takes the user to the maintenance level (MTC) of the MAP which is two levels lower in the MAP level hierarchy than the IPGW MAP level.
Actions:	N/A
Command:	> CM
MAP response:	CM:
Meaning:	Takes the user to the computing module (CM) level of the MAP.
Actions:	N/A

rts

Type

The rts command is a menu listed command.

Target

The command target for the rts command is ALL.

Description

The rts command is used to return the IP Gateway to service.

Release history

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the rts command.

Limitations and restrictions

The rts command has no limitations or restrictions.

Syntax

The rts command syntax is as follows:

```
rts      RETURN_TO_SERVICE THE IPGW PM
          {<OPTION> {FORCE}}
```

The following table describes the parameters and variables of the rts command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
RETURN_TO_SERVICE	N/A	Returns posted IP Gateway to service.
FORCE	N/A	Overrides all other system commands and forces IP Gateway back into service.

Example

The following table provides an example of the rts command.

Command example (Sheet 1 of 2)

Command:	> rts
Description of task:	Return to service of the posted IP Gateway.

rts (end)**Command example (Sheet 2 of 2)**

MAP response:	RTS IPGW GWIP 06 0 RTS Passed
Explanation:	The IP Gateway was returned to service.

Responses

The following table explains possible responses to the rts command.

MAP responses with associated meanings and actions

Command:	> rts
MAP response:	rts IPGW GWIP 06 0 RTS Passed
Meaning:	The IP Gateway has been successfully returned to service.
Actions:	N/A
Command:	> rts
MAP response:	rts **WARNING** IPGW HAS INVALID LOAD OR IS NOT YET LOADED. YOU MAY ISSUE THE LOADPM COMMAND TO QUERY THE IPGW FOR LOAD STATUS, OR YOU MAY ISSUE THE PMRESET COMMAND TO FORCE THE IPGW TO INITIATE AUTOLOADING FROM THE LAN.
Meaning:	The IP gateway either has an invalid load or has not been loaded.
Actions:	Issue LoadPMQ command to verify IPGW load is valid. If load invalid, issue PMRESET command to initiate autoloading from LAN. If loading is successful, return the IPGW to service.

spares

Type

The spares command is a menu listed command.

Target

The command target for the spares command is ALL.

Description

The spares command is used to obtain information only on the spare status of IP Gateway (IPGW) cards. This command does not perform any maintenance activity. The spares command is used to determine the spare status of a local IPGW. Entering the spares command from the IPGW MAP level results in the listing of all InSv local spare gateways off the same host. This allows the identification of available spares in the event a primary IPGW drops activity or is busied by maintenance personnel. The spares command, used with the parameter all, provides the sparing status of all local type IPGWs datafilled in table IPINV.

Release history

NA013

Feature 59007761, Gateway Survivability Phase 1, enhanced the ALL option to provide call processing node mappings.

NA012

Feature 59006459, Centrex IP Node Mtce Robustness, introduced the spares command.

Limitations and restrictions

The following limitations and restrictions apply to the spares command:

- used to obtain information only about the spare status of an IPGW
- not used to perform any maintenance activity

Syntax

The spares command syntax is as follows:

```
spares    [<OPTION> {ALL}]
```

spares (continued)

The following table describes the parameters and variables of the spares command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
all	N/A	When used with the spares command, the system is prompted to give the spare status for all IPGWs.

Example

The following table provides an example of the spares command.

Command example

Command:	> spares
Description of task:	The user enters the spares command to determine the spare status of an IPGW.
MAP response:	Spares Sparing status of InSv spares off same host: Spare IPGW GWIP 06 0 Is In-Service
Explanation:	IPGW GWIP 06 0 is identified as the spare for the posted IPGW and it is in service.

Responses

The following table explains possible responses to the spares command.

MAP responses with associated meanings and actions

Command:	> spares
MAP response:	Spares Sparing status of InSv spares off same host: Spare IPGW GWIP 06 0 Is In-Service
Meaning:	IPGW GWIP 06 0 is identified as the spare for the posted IPGW and it is in service.
Actions:	None

spares (end)

The following table explains possible responses to the spares all command. In this example, GWIP 10 is a primary IPGW servicing its own call processing tids.

MAP responses with associated meanings and actions

Command:	> spares all
MAP response:	Spares all Sparing status of all local IPGWs: Spare IPGW GWIP 10 0 Is In-Service Servicing GWIP 10 0 Spare IPGW GWIP 02 0 Is In-Service Primary IPGW GWIP 14 0 is Man Busy
Meaning:	System indicates the spare status of all local IPGWs.
Actions:	None

The following table explains possible responses to the spares all command. In this example, a takeover has occurred. GWIP 12 0 is servicing the call processing tids of GWIP 10 0.

MAP responses with associated meanings and actions

Command:	> spares all
MAP response:	Spares all Sparing status of all local IPGWs: Spare IPGW GWIP 10 0 Is In-Service Primary IPGW GWIP 12 0 Is In-Service Servicing GWIP 10 0 Primary IPGW GWIP 14 0 is Man Busy
Meaning:	System indicates the spare status of all local IPGWs.
Actions:	None

trns1

Type

The trns1 command is a menu listed command.

Target

The command target for the trns1 command is ALL.

Description

The trns1 command displays the c-side links to the Internet Protocol Gateway (IPGW) card.

Release history

CSP18/SN05

Feature 59038361, CM Provisioning & Maintenance Support for DS-512. When performing maintenance on XPMs connected to a DS-512 interface, the trns1 command is modified when tracing C-side paths to refer to the element manager for the DS-512 interface.

NA011

Feature AF7808, IPGW Node Provisioning and Maintenance, introduced the trns1 command.

Limitations and restrictions

There are modified responses for subtypes TRNSL C, TRNSL MSG C, and TRNSL EMSG C when the posted XPM is connected to an MGC9000-resident DS512 interface rather than an ENET. Otherwise the command and its responses are unchanged

Syntax

The trns1 command syntax is as follows:

```
trns1 <OPTIONS>
```

The following table describes the parameters and variables of the trns1 command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
OPTION	C [<CSIDE LINK> {0 TO 19}],	Display the status of C-side link(s) of the posted XPM. The response to this command is modified for XPMs connected to an MG9000-resident DS512 interface
	P [<PSIDE LINK> {0 TO 53}],	Display the status of P-side link(s) of the posted XPM. The response to this command is not modified
	MSG [<MESSAGE LINK> {C,P}],	Display the status of C-side or P-side messaging link(s) for the posted XPM. The response to this command is modified when the C option is selected for XPMs connected to an MG9000-resident DS512 interface
	EMSG [<EXTENDED MESSAGE LINK> {C}]	Display the status of C-side extended messaging link(s) for the posted XPM. The response to this command is modified for XPMs connected to an MG9000-resident DS512 interface

Examples

The following table provides an example of the trns1 command.

Command example

Command:	> trns1
Description of task:	The user enters the trns1 command to obtain the c-side links for the posted IPGW. Trns1 LINK 0: LTC 0 8;CAP:MS;STATUS:OK ;MsgCond:OPN LINK 1: LTC 0 9;CAP: S;STATUS:OK
Explanation:	The MAP displays the c-side links for the posted IPGW.

The following table provides an example of the TRNSL C command for an externally connected XPM.

Command example

Command:	> TRNSL C
Description of task:	Translate the C-side link information when the posted XPM is connected to an MG9000-resident DS-512 interface rather than an ENET. Trnsl LINK 0: GWC21 0;Cap MS;Status:OK ;MsgCond:OPN,Restrict LINK 1: GWC21 1;Cap MS;Status:OK ;MsgCond:OPN,Restrict LINK 2: GWC21 **;Cap S;Status:OK LINK 3: GWC21 **;Cap S;Status:OK LINK 4: GWC21 2;Cap MS;Status:OK ;MsgCond:OPN,Restrict LINK 5: GWC21 3;Cap MS;Status:OK ;MsgCond:OPN,Restrict ...etc... LINK 31: GWC21 **;Cap S;Status:OK
MAP response:	Please refer to the DS512 Interface EM for all link maintenance commands.

The following table provides an example of the TRNSL MSG C (or TRNSL EMSG C) command for an externally connected XPM.

Command example

Command:	TRNSL MSG C
Description of task:	Translate the C-side messaging link information when the posted XPM is connected to an MG9000-resident DS-512 interface rather than an ENET.
MAP response:	TRNSL on C-side is not supported for XPMs with the EXTDS512 optional attribute. Please refer to the DS512 Interface EM for link status and information.

Responses

The following table explains possible responses to the trnsl command.

MAP responses with associated meanings and actions

Command:	> trnsl
MAP response:	Trnsl LINK 0: LTC 0 8;CAP:MS;STATUS:OK ;MsgCond:OPN LINK 1: LTC 0 9;CAP: S;STATUS:OK

MAP responses with associated meanings and actions

Meaning:	The c-side links for the posted IPGW are in service. The IPGW is able to receive and send messages.
Actions:	None
Command:	> trnsI
MAP response:	TrnsI LINK 0: LTC 0 10;CAP:MS;STATUS:MBsy ;MsgCond:CLS LINK 1: LTC 0 11;CAP: S;STATUS:MBsy
Meaning:	The c-side links for the posted IPGW are in the manually busy (MBsy) state. The IPGW is unable to receive or send messages.
Actions:	Post the host line trunk controller (LTC) that houses the IPGW and return the p-side links to service.
Command:	> trnsI
MAP response:	TrnsI LINK 0: LTC 0 6;CAP:MS;STATUS:SBsy ;MsgCond:CLS LINK 1: LTC 0 7;CAP: S;STATUS:SBsy
Meaning:	The c-side links for the posted IPGW are in the system busy (SBsy) state. The IPGW is unable to receive or send messages.
Actions:	Perform a diagnostic test on the IPGW. Verify that the LTC housing the IPGW is in service. Perform a diagnostic test on the peripheral side (p-side) links at the LTC MAP level. Contact your next level of support.
Command:	> trnsI
MAP response:	TrnsI LINK 0: LTC 0 12;CAP:MS;STATUS:PBsy ;MsgCond:CLS LINK 1: LTC 0 13;CAP: S;STATUS:PBsy
Meaning:	The c-side links for the posted IPGW are p-side busy. The LTC that houses the IPGW is in the manually busy (ManB) state, which makes its p-side links busy.
Actions:	Return the LTC to service. Contact your next level of support.
Command:	TRNSL MSG C or TRNSL EMSG C
MAP response:	TRNSL on C-side links is not supported for XPMs with the EXRDS512 optional attribute. Please refer to the DS512 Interface EM for link status information.N

MAP responses with associated meanings and actions

Meaning:	The MAP does not have the status information on the C-side links of the posted XPM. They are maintained by the element manager for the DS512 interface. Use the element manager to collect the link status information.
Actions:	Go to the element manager for the DS512 interface that is connected to the posted XPM. The link status information is maintained by that element manager.

tst

Type

The tst command is a menu listed command.

Target

The command target for the tst command is ALL.

Description

The tst command runs diagnostic tests on the Internet Protocol Gateway (IPGW) card.

Release history

NA011

Feature AF7595, IPGW Node Provisioning and Maintenance, introduced the tst command.

Limitations and restrictions

The tst command has no limitations or restrictions.

Syntax

The tst command syntax is as follows:

```
tst
```

The following table describes the parameters and variables of the tst command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
tst	N/A	Tests the posted IP Gateway

Example

The following table provides an example of the tst command.

Command example (Sheet 1 of 2)

Command:	> tst
Description of task:	Instructs the DMS switch to run diagnostic tests on the posted IP Gateway card.

tst (end)**Command example (Sheet 2 of 2)**

MAP response:	Tst OSvce Tests Initiated IPGW GWIP 06 0 Tst Passed
Explanation:	The entry of the test command resulted in a diagnostic test being run on the posted IP Gateway card.

Responses

The following table explains possible responses to the tst command.

MAP responses with associated meanings and actions

Command:	> tst
MAP response:	Tst OSvce Tests Initiated IPGW GWIP 06 0 Tst Passed
Meaning:	Diagnostic tests on IP Gateway are initiated with a result of passed.
Actions:	None
Command:	> tst
MAP response:	Tst OSvce Tests Initiated IPGW GWIP 06 0 Tst Failed
Meaning:	Diagnostic tests on IP Gateway are initiated with a result of failed.
Actions:	Retest. If failure continues, perform normal trouble shooting procedures.
Command:	> tst
MAP response:	Tst REQUEST INVALID. CSIDE NODE/LINK OUT OF SERVICE.
Meaning:	The message links between the IP Gateway and the XPM or the network are not in service. Therefore there is no communication path to the IP Gateway card. Tests can not be performed until c-side links are restored.
Actions:	Return c-side links to service and retest.

15 KEYCHG level commands

This chapter provides an overview of the KEYCHG level. This chapter also provides detailed information on new or changed commands in the KEYCHG level.

The following table alphabetically lists the commands available at the KEYCHG level.

Table 15-1

Command
change
help

Description

Use the KEYCHG CI tool to rename the XLAPLAN and RATEAREA keys. The change command allows LINEATTR keys to be changed.

How to access the KEYCHG level

Access the KEYCHG level from the CI environment:

```
> keychg
```

How to return to the CI

Return to the CI environment:

```
> quit
```

change

Type

The change command is a non-menu command.

Target

The command target for the change command is BRISC.

Description

Use the change command to rename XLAPLAN, RATEAREA and LINEATTR keys.

Release history

This section identifies if the command is new or changed, as well as the applicable software release.

CCM12

In pre-NA012 releases, the change command only supported renaming of XLAPLAN and RATEAREA keys. In NA012, you can use this command to rename LINEATTR keys.

Limitations and restrictions

The following limits and restrictions apply to the change command:

- The LINEATTR key cannot be renamed to an existing Line Class Code (LCC). If they match, the KEYCHG tool prevents renaming of LK to that particular value and generates an error.
- For an individual table, an existing key cannot be specified as the key to a new tuple.

Syntax

The change command syntax is as follows:

```
change    <Options:>{XLAPLAN<old_xlaplan:>STRING
                        <new_xlaplan:>STRING,
                        RATEAREA<old_ratearea:>STRING
                        <new_rratearea:>STRING,
                        LINEATTR<old_lineattr:>STRING
                        <new_lineattr:>STRING}
This action will change LINEATTR key <old_lineattr> to
<new_lineattr>
Are you sure you want to make this change?
Please confirm ("YES", "Y", "NO", or "N"):
>y or n
```

change (continued)

The following table describes the parameters and variables of the change command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
LINEATTR		This parameter Indicates that the change command acts on the LINEATTR key.
old_lineattr		This variable is the present LINEATTR key.
new_lineattr		This variable is the new LINEATTR key.
XLAPLAN		This parameter indicates that the change command acts on the XLAPLAN key.
old_lineattr		This variable is the present XLAPLAN key.
new_lineattr		This variable is the new XLAPLAN key.
RATEAREA		This parameter indicates that the change command acts on the RATEAREA key.
old_lineattr		This variable is the present RATEAREA key.
new_lineattr		This variable is the new RATEAREA key.

Example

The following table provides an example of the change command used to change the LINEATTR key to a new value.

Command example (Sheet 1 of 2)

Command:	>change LINEATTR LATTR1 LATTR2
Description of task:	Change LINEATTR key: LATTR1 to new value: LATTR2 and confirm the change.

change (continued)

Command example (Sheet 2 of 2)

MAP response:	This action will change LINEATTR key"LATTR1" to "LATTR2" Are you sure you want to make this change? Please confirm ("YES", "Y", "NO, or "N"): >y LINEATTR Key "LATTR1" successfully changed to "LATTR2" Warning: The SOC BASE0011 is OFF Warning: The TUPL607 log could not be generated
Explanation:	The change command changed the LINEATTR key name from LATTR1 to LATTR2.

The following table provides an example of the change command used to change the XLAPLAN key to a new value.

Command example

Command:	>change XLAPLAN Key: XLPLN1, to a new value greater than 16 characters in length: ABCDEFGHIJKLMNOPQRSTUVWXYZ
Description of task:	Change XLAPLAN Key: XLPLN1, to a new value greater than 16 characters in length: ABCDEFGHIJKLMNOPQRSTUVWXYZ
MAP response:	WARNING: Only the first 16 characters of new key are used. This action will change XLAPLAN key "XLPLN1" to "ABCDEFGHIJKLMNOP" Are you sure you want to make this change? Please confirm ("YES", "Y", "NO, or "N"): >y XLAPLAN key "XLPLN1" successfully changed to "ABCDEFGHIJKLMNOPQRSTUVWXYZ" Warning: The SOC BASE0011 is OFF Warning: The TUPL607 log could not be generated.
Explanation:	The change command used the first sixteen characters of the new key..

The following table provides an example of the change command used to change the RATEAREA key to a new value.

Command example (Sheet 1 of 2)

Command:	>change RATEAREA Key: RATE1, to a new value greater than 16 characters in length: ABCDEFGHIJKLMNOPQRSTUVWXYZ
Description of task:	Change RATEAREA Key: RATE1, to a new value greater than 16 characters in length: ABCDEFGHIJKLMNOPQRSTUVWXYZ

change (continued)**Command example (Sheet 2 of 2)**

MAP response:	WARNING: Only the first 16 characters of new key are used. This action will change RATEAREA key "RATE1" to "ABCDEFGHIJKLMNOPQRSTUVWXYZ" Are you sure you want to make this change? Please confirm ("YES", "Y", "NO, or "N"): >y RATEAREA key "RATE1" successfully changed to "ABCDEFGHIJKLMNOPQRSTUVWXYZ" Warning: The SOC BASE0011 is OFF Warning: The TUPL607 log could not be generated.
Explanation:	The change command used the first sixteen characters of the new key.

Responses

The following table explains possible responses to the change command.

MAP responses with associated meanings and actions (Sheet 1 of 3)

Command:	>change LINEATTR LATTR1 LATTR2
MAP response:	LINEATTR Key LATTR1 successfully changed to LATTR2
Meaning:	This response indicates that LINEATTR key has been successfully changed from LATTR1 (old lineattr key) to LATTR2 (new lineattr key)
Actions:	None.
Command:	>change LINEATTR LATTR1 LATTR3
MAP response:	ERROR: New Lineattr Key matches an existing LCC
Meaning:	New LINEATTR Key matches an existing LCC and the old LINEATTR key cannot be renamed to the new value.
Actions:	You must re-enter the CHANGE command with a different LINEATTR key that does not match any of the existing LCCs.
Command:	>change LINEATTR LATTR1 ABCDEFGHIJKLMNOPQ
MAP response:	WARNING: Only the first 16 characters of new key are used.
Meaning:	This response indicates that the new LINEATTR key exceeds sixteen characters in length and that it will be truncated to the first sixteen characters for further use.
Actions:	None.
Command:	>change XLAPLAN XLAPLAN1 XLAPLAN2

change (continued)

MAP responses with associated meanings and actions (Sheet 2 of 3)

MAP response:	XLAPLAN Key XLAPLAN1 successfully changed to XLAPLAN2
Meaning:	This response indicates that XLAPLAN key has been successfully changed from XLAPLAN1 (old xlaplan key) to XLAPLAN2 (new xlaplan key)
Actions:	None.
Command:	>change XLAPLAN XLPLAN1 XLAPLAN3
MAP response:	ERROR: New XLAPLAN key matches an existing XLAPLAN key
Meaning:	New XLPLAN key matches an existing XLAPLAN key and the old XLAPLAN key cannot be renamed to the new value.
Actions:	You must re-enter the CHANGE command with a different XLAPLAN key that does not match any of the existing XLAPLAN keys.
Command:	>change XLAPLAN XLAPLAN1 ABCDEFGHIJKLMNOPQ
MAP response:	WARNING: Only the first 16 characters of new key are used.
Meaning:	This response indicates that the new XLAPLAN key exceeds sixteen characters in length and that it will be truncated to the first sixteen characters for further use.
Actions:	None.
Command:	>change RATEAREA RATEAREA1 RATEAREA2
MAP response:	RATEAREA Key RATEAREA1 successfully changed to RATEAREA2
Meaning:	This response indicates that the RATEAREA key has been successfully changed from RATEAREA1 (old ratearea key) to RATEAREA2 (new ratearea key)
Actions:	None.
Command:	>change RATEAREA RATEAREA1 RATEAREA3
MAP response:	ERROR: New RATEAREA key matches an existing RATEAREA key
Meaning:	New RATEAREA key matches an existing RATEAREA key and the old RATEAREA key cannot be renamed to the new value.
Actions:	You must re-enter the CHANGE command with a different RATEAREA key that does not match any of the existing RATEAREA keys
Command:	>change RATEAREA RATEAREA1 ABCDEFGHIJKLMNOPQ
MAP response:	WARNING: Only the first 16 characters of new key are used.

change (end)

MAP responses with associated meanings and actions (Sheet 3 of 3)

Meaning:	This response indicates that the new RATEAREA key exceeds sixteen characters in length and that it will be truncated to the first sixteen characters for further use.
Actions:	None.

help

Type

The help command is a non-menu command.

Target

The command target for the help command is BRISC.

Description

The help command in the KEYCHG directory displays help that describes how to use the KEYCHG CI tool to rename LINEATTR keys.

Release history

CCM12

Feature A59007050 LATTR key enhancement changed this command. The help command displays help regarding LINEATTR key modifications supported by KEYCHG CI tool.

Limitations and restrictions

The help command has no limits or restrictions.

Example

The following table provides an example of the help command.

Command example

Command:	>help
Description of task:	Provides help on existing KYCHG commands.
MAP response:	KEYCHG COMMANDS: CHANGE Change key of :XLAPLAN tuple RATEAREA tuple LINEATTR tuple HELP List of KEYCHG COMMANDS QUIT Quit KEYCHG
Explanation:	Response indicates that LINEATTR key can also be changed.

help (end)

Responses

There is no change to the help command responses.

16 LTPISDN level commands

This chapter provides an overview of the LTPISDN level. This chapter also provides detailed information on new or changed commands in the LTPISDN level.

The following table alphabetically lists the commands available at the LTPISDN level.

Table 16-1

Command
l3logctl
qlayer
termchk
rlayer

Description

Use the LTPISDN level of the MAP to access commands such as qlayer, rlayer, l3logctl to query information on different layers of posted ISDN lines.

How to access the LTPISDN level

Access the LTPISDN level from the CI environment:

```
>ltpisdn
```

How to return to the CI

Return to the CI environment:

```
>quit
```

MAP display

The following figure shows an example of the MAP display of the LTPISDN level.

Figure 16-1 Example of a MAP display of the LTPISDN level

```

LTPISDN
0 Quit          POST          DELQ          BUSYQ          PREFIX
2 Post_         LEN HOST 08 0 06 18
3              LCC PTY RNG          STA F S LTA TE RESULT
4 Termchk       ISDN LOOP          DN 909 750 0965 IDL
5
6 Sustate
7 BCHCON
8 Ltloopbk_
9 DCHCon
10 TEST_
11 Hold        Next par is: <com_type> {QUERY <query_type> {DEF,
12 Next                                     STATUS},
13                                     SET <l3logc_entity> {ALL,
14 TstSgnl                                           Q931,
15 TEI_                                           ABN1,
16 Qloop                                           ABN2,
17 Qlayer                                           ABN3,
18 Rlayer                                           ABN4,
          CMAP13                                           ABN5,
Time 01:29  MORE ...

```

l3logctl

Type

The l3logctl command is a nonmenu command.

Target

The command target for the l3logctl command is SuperNode, BRISC.

Description

Use the *l3logctl* command to control layer 3 abnormality logs that are generated or inhibited. This command allows control of logs by ISDN line. The line parameter in the l3logctl command must be "on" to enable the control of logs by line. This restriction can be overridden by using the override parameter of the particular line.

Release history**NA012**

Feature A59006381 introduces control of layer 3 service disruption log by ISDN line. It adds field L3SD (layer 3 service disruption) to the log definition.

Limitations and restrictions

An ISDN line must be posted before the l3logctl command is used on the line.

Syntax

The command syntax is as follows:

```
l3logctl <com_type> [<Query>
                        <query_mode>{def, status}]
                    [<Set>
                        <l3logc_entity> <l3_entity_status>
                        {on, off}]
                    [<Setovr>
                        <l3_ovr_state>{on, off}]
```

The following table describes the parameters and variables of the l3logctl command.

Command parameter and variable descriptions (Sheet 1 of 2)

Parameters and variables	Value	Description
com_type	query, set, setovr	Commands that can be used are query, set, and setovr.
query	query_mode	The query_mode values are def, and status. (See query_mode in this table).

l3logctl (continued)

Command parameter and variable descriptions (Sheet 2 of 2)

Parameters and variables	Value	Description
query_mode	def, status	Def=definition. This value displays definitions of all the fields in the log or definition of a field. The status value displays the status of all the fields in the log or the status of a field.
set	l3logc_entity, and l3_entity_status	The l3logc_entity value is L3SD. The l3_entity_status value is on or off. (See l3logc_entity and l3_entity_status in this table).
l3logc_entity	L3SD	This value selects the field L3SD (layer 3 service disruption).
l3_entity_status	on, off	The on value turns the status of the L3SD field on. The off value turns the status of the L3SD field off.
setovr	l3_ovr_state	The l3_ovr_state value is on or off.
l3_ovr_status	on, off	The on value turns the override bit status on. The off value turns the override bit status off.

Example

The following table provides an example of the l3logctl command.

Command example (Sheet 1 of 2)

Command:	>l3logctl query def

l3logctl (continued)**Command example (Sheet 2 of 2)**

Description of task:	Display all the field definitions in layer 3 abnormality log.
MAP response:	Layer 3 abnormality log entity definitions Override: the overriding bit Q931: Q.931 pkt : Packet abn1 : DISCONNECT received abn2 : DISCONNECT transmitted abn3 : RELEASE received abn4 : RELEASE transmitted abn5 : RELEASE COMP received abn6 : RELEASE COMP transmitted abn7 : Status message received abn8 : Status message transmitted abn9 : Progress message transmitted abn10 : msg rcvd less than minimum length abn11 : msg rcvd with invalid protocol discriminator info abn12 : msg rcvd with invalid call ref value abn13 : SETUP msg rcvd with cal ref flag incorrectly set to 1 abn14 : Restart request transmitted abn15 : Restart request received abn16 : Reset request transmitted abn17 : Reset request received abn18 : Clear request transmitted abn19 : Clear request received abn20 : Diagnostic packet transmitted abn21 : Diagnostic packet received L3SD : Layer 3 Service Disruption

Responses

The following table explains possible responses to the l3logctl command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>l3logctl
MAP response:	No terminal is in the control position.
Meaning:	No lines are posted.
Actions:	Post a line.
Command:	>l3logctl

l3logctl (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

MAP response:	l3logctl command is not valid on <line_type> lines.
Meaning:	A line with an invalid line type is posted.
Actions:	Post a line with a valid line type.

qlayer

Type

The qlayer command is a menu listed command.

Target

The command target for the qlayer command is SuperNode, BRISC.

Description

Use the qlayer command to query layer 1, 2, 3 information for the posted ISDN line. The information includes total number of frames received and transmitted, number of frames received in error and retransmitted, and percentages of errors received and frames retransmitted. Information display for layer 3 includes service disruption count for circuit services.

Release history

This section identifies if the command is new or changed, and the applicable software release.

NA012

Feature 59006381 *includes the service disruption count for circuit services in information displayed on layer 3.*

Limitations and restrictions

The qlayer command has no limits or restrictions.

Syntax

The qlayer command syntax is as follows:

```
qlayer    <Layer>{L1,L2,L3}  
          <Mode>{BE,HIST,BOTH}
```

Note: The text strings Layer and Mode indicate the functions of the command, are not considered as variable names, and are not part of the command syntax. Do not enter values to replace these text strings.

qlayer (continued)

The following table describes the parameters and variables of the qlayer command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
Layer	L1, L2, L3	L1=layer 1, L2=layer 2 and L3=layer 3. These values in this parameter display information related to layer 1, layer 2 and layer 3 respectively for the posted ISDN line. When value L1 is used, this parameter must be followed by the mode parameter. The default option is to display information on all layers.
Mode	BE, HIST, BOTH	BE=block error. HIST=history. BOTH=both BE and HIST. This parameter applies when the value L1 (layer 1) is used.

Example

The following table provides an example of the qlayer command.

Command example (Sheet 1 of 2)

Command:	>qlayer
Description of task:	Display layer 1, 2, 3 information for the posted ISDN line with the default option.

qlayer (continued)**Command example (Sheet 2 of 2)**

```

MAP response:      LEN HOST 01 0 00 06
                   ---ES NE--- ---SES NE--- ---ES FE--- ---SES FE---
                   C.Hr C.Dy  C.Hr C.Dy  C.Hr C.Dy  C.Hr C.Dy
                     0  1   0  0   0  0   0  0
                   Active Thresholds (NE) and (FE)
                     40  100  10  25   40 100 10  25

                   Linecard Clock  1  12:20:36

                   Frames received in total   :  0
                   Frames received in error   :  0
                   Frames transmitted in total : 274
                   Frames retransmitted      :  0
                   Percentage error received  : 0.0%
                   Percentage retransmitted   : 0.0%

                   Number of Layer 2 Service Disruptions:  0
                   Length of Time Disrupted   :  0 minutes
                   Currently Disrupted        :NO

                   Layer 2 Individual Abnormality Counts:
                   ABN1 ABN2 ABN3 ABN4 ABN5 ABN6 ABN7 ABN8 ABN9
                   ABN10
                   =====
                   =====
                   0  0  0  0  0  0  0  0  0
                   0
                   TEI Abnormality Count : 0
                   Layer 2 High Abnormality Count : 0

                   Layer 3 High Abnormality Count : 0
                   Layer 3 Service Disruption Count : 0

Explanation:      The system displays information of the posted ISDN line. 274 frames were
                   transmitted and no errors occurred.

```

Responses

The following table explains possible responses to the qlayer command.

MAP responses with associated meanings and actions (Sheet 1 of 3)

Command:	>qlayer
MAP response:	DCH is out of service

qlayer (continued)

MAP responses with associated meanings and actions (Sheet 2 of 3)

Meaning:	The DCH, which provides the service of the ISG channel connected to the D-channel of the LEN, is not in service.
Actions:	Determine the reason for the DCH being out of service.
Command:	>qlayer
MAP response:	Fail message received from the DCH
Meaning:	The DCH replied that the request failed.
Actions:	Check any PM180 SWERR. If it is consistent, it indicates an XPM software problem. Contact your next level of support.
Command:	>qlayer
MAP response:	Failed to run layer2 request
Meaning:	This indicates that some problem occurred. Normally, a SWERR log is created.
Actions:	Collect the SWERR log. If it is consistent, it indicates a CCC software problem. Contact your next level of support.
Command:	>qlayer
MAP response:	layer2 activity cannot be activated on a <loop_state> loop
Meaning:	The line state of the line is not one of the following: IDL, MD, LO, CPB, CPD, or INB.
Actions:	Change the state of the line to a valid condition.
Command:	>qlayer
MAP response:	Line is not fully data filled
Meaning:	The line status is HASU, meaning that no ISG channel is connected to the D-channel.
Actions:	Change the status of the line to WORKING.
Command:	>qlayer
MAP response:	No reply from the DCH
Meaning:	The DCH did not reply for some reason.

qlayer (end)

MAP responses with associated meanings and actions (Sheet 3 of 3)

Actions:	Check any PM180 SWERR. If it is consistent, it indicates a messaging problem. Contact your next level of support.
Command:	>qlayer
MAP response:	PM is out of service
Meaning:	The C-side peripheral is out of service. The counters are not available.
Actions:	Determine the reason for the PM being out of service.

rlayer

Type

The rlayer command is a menu listed command.

Target

The command target for the rlayer command is SuperNode, BRISC.

Description

Use the rlayer command to display layer 1, 2, 3 information and reset the counter for each layer of the posted ISDN line. The information includes total number of frames received and transmitted, number of frames received in error and retransmitted, and percentages of errors received and frames retransmitted. Information display for layer 3 includes service disruption count for circuit services.

Release history

This section identifies if the command is new or changed, and the applicable software release.

NA012

Feature 59006381 includes the service disruption count for circuit services in information displayed on layer 3.

Limitations and restrictions

The rlayer command has no limits or restrictions.

Syntax

The rlayer command syntax is as follows:

```
r layer    <Layer>{L1, L2, L3}
           <Mode>{CUR, HIST, BOTH}
           <All_posted>{ALL}
```

Note: The text strings Layer, Mode and All_posted indicate the function of the command, are not considered as variable names, and are not part of the command syntax. Do not enter values to replace these text strings.

rlayer (continued)

The following table describes the parameters and variables of the rlayer command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
Layer	L1, L2, L3	L1=layer 1, L2=layer 2 and L3=layer 3. These values in this parameter display or reset information related to layer 1, layer 2 and layer 3 respectively for the posted ISDN line. When value L1 is used, this parameter must be followed by the mode parameter. The default option is to display information on all layers.
Mode	CUR, HIST, BOTH	CUR=current. HIST=history. BOTH=both BE and HIST. This parameter applies when the value L1 (layer 1) is used.
All_posted	ALL	This parameter is optional. It can be used with either the Layer or the Mode parameter. It executes the rlayer command on all lines in a posted set of ISDN lines.

Example

The following table provides an example of the rlayer command.

Command example (Sheet 1 of 2)

Command:	>rlayer
Description of task:	Display layer 1, 2, 3 information for the posted ISDN line with the default option. Reset the counter for each layer.

rlayer (continued)**Command example (Sheet 2 of 2)**

```

MAP response:  LEN HOST 01 0 00 06
               ---BE NE--- ---BE FE---
               C.Hr P.Hr C.Hr P.Hr
               0  1  0  0
               ---ES NE--- ---SES NE--- ---ES FE--- ---SES FE---
               C.Hr C.Dy C.Hr C.Dy C.Hr C.Dy C.Hr C.Dy
               0  1  0  0  0  0  0  0
               Active Thresholds (NE) and (FE) 40 100 10 25 40 100 10 25
               ---ES NE--- ---SES NE--- ---ES FE--- ---SES FE---C.Hr P.Hr P.Dy
               P.Hr P.Dy TI P.Hr P.Dy P.Hr P.Dy 1 0 -1 0 0
               Linecard Clock 1 12:20:36
               L1 LINE CARD COUNTERS: RESET

               Frames received in total : 0
               Frames received in error : 0
               Frames transmitted in total : 274
               Frames retransmitted : 0
               Percentage error received : 0.0%
               Percentage retransmitted : 0.0%

               Number of Layer 2 Service Disruptions: 0
               Length of Time Disrupted : 0 minutes
               Currently Disrupted :NO

               Layer 2 Abnormality Counts:
               ABN1 ABN2 ABN3 ABN4 ABN5 ABN6 ABN7 ABN8 ABN9 ABN10
               ===== 0 0 0 0
               0 0 0 0 0 0
               TEI Abnormality Count : 0
               Layer 2 High Abnormality Count : 0

               L2 COUNTERS : RESET

               Layer 3 High Abnormality Count : 0
               Layer 3 Service Disruption Count : 0

               L3 COUNTERS : RESET

Explanation:  The system displays information of the posted ISDN line. 274 frames were
               transmitted and no errors occurred. The counter for each layer is reset.

```

rlayer (continued)**Responses**

The following table explains possible responses to the rlayer command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>rlayer
MAP response:	DCH is out of service
Meaning:	The DCH, which provides the service of the ISG channel connected to the D-channel of the LEN, is not in service.
Actions:	Determine the reason for the DCH being out of service.
Command:	>rlayer
MAP response:	Fail message received from the DCH
Meaning:	The DCH replied that the request failed.
Actions:	Check any PM180 SWERR. If it is consistent, it indicates an XPM software problem. Contact your next level of support.
Command:	>rlayer
MAP response:	Failed to run layer2 request
Meaning:	This indicates that some problem occurred. Normally, a SWERR log is created.
Actions:	Collect the SWERR log. If it is consistent, it indicates a CCC software problem. Contact your next level of support.
Command:	>rlayer
MAP response:	layer2 activity cannot be activated on a <loop_state> loop
Meaning:	The line state of the line is not one of the following: IDL, MD, LO, CPB, CPD, MB, or INB.
Actions:	Change the state of the line to a valid condition.
Command:	>rlayer
MAP response:	Line is not fully data filled
Meaning:	The line status is HASU, meaning that no ISG channel is connected to the D-channel.
Actions:	Change the status of the line to WORKING.

rlayer (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Command:	>rlayer
MAP response:	No reply from the DCH
Meaning:	The DCH did not reply for some reason.
Actions:	Check any PM180 SWERR. If it is consistent, it indicates a messaging problem. Contact your next level of support.
Command:	>rlayer
MAP response:	PM is out of service
Meaning:	The C-side peripheral is out of service. The counters are not available.
Actions:	Determine the reason for the PM being out of service.

17 MTRSYS level commands

This chapter provides an overview of the MTRSYS level. This chapter also provides detailed information on new or changed commands in the MTRSYS level.

The following table alphabetically lists the commands available at the MTRSYS level.

Table 17-1

Command
OOS
TARIFF
TNT

Description

MTRSYS is used to provide access to metering utilities.

How to return to the CI

Return to the CI environment:

```
>quit
```


oos

Type

The oos command is a menu listed command.

Target

The command target for the oos command is SuperNode, BRISC.

Description

The oos command manually starts the Out Of Service (OOS) process for lines, trunks, or both lines and trunks.

- For lines, the oos command opens the Device Independent Recording Package (DIRP) subsystem OOS and writes the deprovisioned line meter block to the OOS file of the OOS DIRP subsystem.
- For trunks, the oos command opens the DIRP subsystem TOOS and writes the deprovisioned trunk meter block to the TOOS file of the TOOS DIRP subsystem.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

Feature 59022371, Out Of Service support for trunk metering, introduced the oos command.

Limitations and restrictions

The oos command has no limits or restrictions.

Syntax

The oos command syntax is as follows:

```
oos <agent type> {lines, trunks, all}
```

OOS (continued)

The following table describes the parameters and variables of the oos command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
agent type	lines trunks all	This variable specifies the agent type. The default agent type is lines.

Example

The following table provides an example of the oos command.

Command example

Command:	> oos all
Description of task:	Run the OOS process for both lines and trunks.
MAP response:	Please confirm ("YES", "Y", "NO", "N") >Y Request accepted for lines Request accepted for trunks
Explanation:	The request to run the OOS process for both lines and trunks has been accepted.

Responses

The following table explains possible responses to the oos command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> oos
MAP response:	<process name> process is running
Meaning:	One of the following processes is active: backup, restore or recovery.
Actions:	The system cancels the execution of the oos command. Wait until the process stops running, then enter the oos command again.
Command:	> oos
MAP response:	Request accepted for (agent type(s))
Meaning:	The OOS process is running for (agent type(s)).

OOS (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Actions:	The system generates log report MTR107 to indicate that the OOS process started. The system opens DIRP file OOS or TOOS, and the OOS meter blocks are written to that file. The system generates log report MTR109 to indicate that the OOS process finished. Check the OOS meter blocks from the OOS or TOOS DIRP file.
Command:	> oos
MAP response:	T/OOS DIRP volume has not been mounted in DIRP.
Meaning:	The OOS or TOOS volume has not been mounted in DIRP.
Actions:	The system generates the METOOS Software Alarm. Mount the OOS or TOOS volume in DIRP, then run the OOS process.

tariff

Type

The tariff command is a menu listed command.

Target

The command target for the tariff command is SuperNode, BRISC.

Description

The Tariff command displays provisioned tariff data for the specified network. Data is extracted from the metering-related data tables.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

Feature 59023132 changed the tariff command to enable two extra tariff numbers to be displayed.

Feature 59022366 changed the tariff command to enable tariffs to be displayed for ETSI BRI line agents.

Limitations and restrictions

The following limits and restrictions apply to the tariff command:

- Tables that contain entries for lnet, mzone and tnt must be datafilled before you run the tariff command.

Syntax

The tariff command syntax is as follows:

```
tariff    <agent type> {LINE, TRUNK}
          <agent id> {DN, CLI}
          <lnet> {LOC, NATL, INTL, FEATURE}
          <mzone>
          <tnt>
```

tariff (continued)

The following table describes the parameters and variables of the tariff command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
agent type	LINE, TRUNK	This variable specifies the agent type.
agent id	DN, CLLI	This variable specifies the agent ID. Enter an SNPA and DN for a line, or the CLLI for a trunk.
lnet	LOC, NATL, INTL, FEATURE	This variable is the logical network type from table MTRLNET.
mzone	0 to 63	This variable is a metering zone number.
tnt	0 to 9	This optional variable is a tariff number table number.

Example

The following table provides an example of the tariff command.

Command example

Command:	> TARIFF line 7831008 loc 3 5
Description of task:	Display the tariff information for the ETSI BRI line with DN 7831008, on the local network, metering zone 3 and TNT number 5.
MAP response:	<pre> TNT TIME # Unit phase 1 phase 2 phase 3 phase 4 ----- 5 min 4 1 15 5 1 20 3 1 30 3 1 40 Pulses will be applied at the beginning of each phase </pre>
Explanation:	The tariff data is displayed for line 7831008 on the local network, metering zone 3, TNT number 5. For each tariff, the information shown for each phase consists of the number of bursts, the burst size, and the duration. The tariff data is derived from the table MTARIFF.

tariff (end)

Responses

The following table explains possible responses to the tariff command.

MAP responses with associated meanings and actions

Command:	> TARIFF line 123456 loc 3 5												
MAP response:	TNT TIME												
	#	Unit	phase 1			phase 2			phase 3			phase 4	

	5	min	4	1	15	5	1	20	3	1	30	3	1
	Pulses will be applied at the beginning of each phase												
Meaning:	The system displays the provisioned tariff data for line 123456 on the local network, metering zone 3, TNT number 5. For each tariff, the information shown for each phase consists of the number of bursts, the burst size, and the duration.												
Actions:	None												

tnt

Type

The tnt command is a menu listed command.

Target

The command target for the tnt command is ALL.

Description

The tnt command displays the provisioned TNT numbers for the current TAD information and all defined logical network types.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

The tnt command is changed for the MMP15 release. With the feature 59023132 (Metering Tariff Enhancement), the Tariff Table Number field range is increased in the output of the tnt command.

Limitations and restrictions

The tnt command has no limits or restrictions.

Syntax

The following table describes the parameters and variables of the tnt command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
LNET	LOC, NATL, INTL, FEATURE	This variable is the logical network type from MTRLNET.
TNT	0 to 9	This optional variable is a tariff number table number.

Responses

The following table explains possible responses to the tnt command.

MAP responses with associated meanings and actions

Command:	>tnt		
MAP response:	NETWORK	TARIFF	TABLE NUMBER

	LOC	8	
	NAT	1	
	INTL	1	
Meaning:	Display Tariff Table numbers for all defined networks.		
Actions:	There is no action required.		
Command:	>tnt loc		
MAP response:	NETWORK	TARIFF	TABLE NUMBER

	LOC	8	
Meaning:	Display Tariff Table number for network LOC.		
Actions:	There is no action required.		

18 NAOCCI level commands

This chapter provides an overview of the NAOCCI level. This chapter also provides detailed information on new or changed commands in the NAOCCI level.

The following table alphabetically lists the commands available at the NAOCCI level.

Table 18-1 (Sheet 1 of 2)

Command
audit
carnam
chgcurr
dnscrn
intl
intlzn
local
localzn
natl
natlzn
quit
resnam
serv
servzn
tadata

Table 18-1 (Sheet 2 of 2)

Command
tadisc
taindx
tcoinf

Description

The NAOCCI tool is a CI level tool. The NAOCCI tool simulates the NAOC tariff determination process for local, national, international and service number calls. The NAOCCI tool traverses individual NAOC tables using a specified input key. You can use the NAOCCI tool to traverse the following NAOC tables:

- CARNAME
- RESNAME
- DNSCRN
- LOCLZONE
- NATLZONE
- INTLZONE
- SERVZONE
- TARFINDX
- TARFDATA
- TARFDISC

The NAOCCI traversal subcommands display NAOC tariff database information based on the following user input parameters and variables:

- ZONE
- CLASS
- CGN
- CDN
- CIC
- MCE

How to access the NAOCCI level

Access the NAOCCI level from the CI environment:

> naocci

How to return to the CI

Return to the CI environment:

```
> quit
```

audit

Type

The audit command is a nonmenu command.

Target

The command target for the audit command is ALL.

Description

The audit subcommand invokes the NAOC tariff database audit.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP15

Feature 59022366 changed the audit command to add auditing for ETSI BRI line agents.

MMP13

This command is new for this release.

Limitations and restrictions

The audit command has the following limits or restrictions.



CAUTION

Service degradation

The NAOC tariff database audit is a CPU intensive process. Do not use this command during periods of heavy network traffic or intensive CPU processing.

Syntax

The audit command syntax is as follows:

```
audit <agent type> {LINES, TRUNKS, ALL}
```

audit (continued)

The following table describes the parameters and variables of the audit command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
agent type	LINES, TRUNKS, ALL	This variable specifies the agent type. Enter LINES to audit IBN or BRI lines. Enter TRUNKS to audit ISUP, PRI and other trunks. Enter ALL to audit lines and trunks.

Example

The following table provides an example of the audit command.

Command example

Command:	> audit
Description of task:	This command invokes the NAOC tariff database audit.
MAP response:	BEGINNING AUDIT - PLEASE WAIT . . . AUDIT COMPLETED SUCCESSFULLY.
Explanation:	The NAOC tariff database audit completed successfully.

Responses

The following table explains possible responses to the audit command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> audit
MAP response:	AUDIT COMPLETED SUCCESSFULLY
Meaning:	The NAOC tariff database audit is complete.
Actions:	None
Command:	> audit
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.

audit (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Command:	> audit
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> audit
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

carnam

Type

The carnam command is a nonmenu command.

Target

The command target for the carnam command is ALL.

Description

The carnam command indexes table CARNAME. Enter a carrier identification code (CIC) to specify the key associated with the tuple. The carnam command can retrieve and display the following information from table CARNAME:

- carrier name field (CARNAM)
- network ID field (NETWRKID)
- node ID field (NODEID)
- use MCE field (USEMCE)
- MCE default field (MCEDFLT)
- MCE override field (MCEOVR)

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The carnam command is new for the MMP13 release.

Limitations and restrictions

The carnam command has no limits or restrictions.

Syntax

The carnam command syntax is as follows:

```
carnam <CIC>
```


carnam (continued)

The following table describes the parameters and variables of the carnam command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
CIC	Up to 4 digits	This variable is the carrier identification code (CIC).

Example

The following table provides an example of the carnam command.

Command example

Command:	> carnam 11
Description of task:	The carnam command retrieves and displays the values of CARNAM, NETWRKID, NODEID, USEMCE, MCEDFLT and MCEOVR from table CARNAME.
MAP response:	TABLE INDEXED BY CIC 11 TABLE CARNAME 11 CAR11 11 11 YES PRE_SEL USE_PRE_SEL
Explanation:	The datafill provided for the tuple associated with CIC 11 is retrieved and displayed.

Responses

The following table explains possible responses to the carnam command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> carnam 1999
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> carnam 1999
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> carnam 1999

carnam (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

MAP response:	Carrier/Reseller number not found
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> carnam 1999
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

chgcurr

Type

The chgcurr command is a nonmenu command.

Target

The command target for the chgcurr command is ALL.

Description

This command changes the NAOC currency value. The default currency value is EURO.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The chgcurr command is new for the MMP13 release.

Limitations and restrictions

The chgcurr command has no limits or restrictions.

Syntax

The chgcurr command syntax is as follows:

chgcurr <CURRENCY VALUE>

chgcurr (continued)

The following table describes the parameters and variables of the chgcurr command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
CURRENCY VALUE	AustDollar BelFranc CzechKrona DanKrone DMark Drachma Escudo Euro Florint FrFranc Guilder Lira LuxFranc Markka No_indication NorKrone Peseta Pound Punt Rouble Schilling Sloti SlovakKrona SwissFranc TurkLira USDollar Yen	The chgcurr command accepts these currency values.

Example

The following table provides an example of the chgcurr command.

Command example

Command:	> chgcurr AustDollar
Description of task:	The chgcurr command sets the currency value to Australian Dollars.
MAP response:	NEW CURRENCY VALUE: Australian Dollar
Explanation:	The currency value is set to Australian Dollars.

chgcurr (end)

Responses

The following table explains possible responses to the chgcurr command.

MAP responses with associated meanings and actions

Command:	> chgcurr TurkLira
MAP response:	OLD CURRENCY VALUE: Australian Dollar NEW CURRENCY VALUE: Turkish Lira
Meaning:	The currency value is changed from Australian Dollars to Turkish Lira.
Actions:	None
Command:	> chgcurr TurkLira
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.

DELDF

Type

The deldf command is a nonmenu command.

Target

The command target for the deldf command is SuperNode and BRISC.

Description

The command deldf is a CI map level command. The inputs to command deldf are the LEN and the default feature option. The result indicates whether the default feature is deactivated or not from the line.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP14

The deldf command is introduced by activity 59019097 for the MMP14 release.

Limitations and restrictions

The deldf command has no limits or restrictions.

Syntax

The deldf command syntax is as follows:

DELDF <LEN> <DEFAULT_FEATURE_OPTION>

The table that follows describes the parameters and variables of the deldf command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
LEN	00 0 00 01	This is the Line Equipment Number of the Line.
Default Feature Option	IWUC	This is the feature that the lines have by Default when CEPT is on line.

DELDF (end)

Example

The table that follows provides an example of the deldf command.

Command example

Command:	> deldf
Description of task:	The deldf command indicates whether the default feature is deactivated or not from the line.
MAP response:	DEACTIVATED THE DEFAULT FEATURE FROM THE LINE
Explanation:	This is the feature that the lines have by default when CEPT is on line.

Responses

The table that follows explains possible responses to the deldf command.

MAP responses with associated meanings and actions

Command:	>deldf
MAP response:	DEACTIVATED THE DEFAULT FEATURE FROM THE LINE
Meaning:	
Actions:	Check that the default feature from the line is deactivated

dnscrn

Type

The dnscrn command is a nonmenu command.

Target

The command target for the dnscrn command is ALL.

Description

The dnscrn command displays the carrier/reseller name and discount index.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The dnscrn command is new for the MMP13 release.

Limitations and restrictions

The dnscrn command has no limits or restrictions.

Syntax

The dnscrn command syntax is as follows:

```
dnscrn <ONDC>
```

The following table describes the parameters and variables of the dnscrn command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
ONDC	Up to 24 digits	This variable is the directory number of the calling party.

Example

The following table provides an example of the dnscrn command.

Command example (Sheet 1 of 2)

Command:	> dnscrn 761900900
Description of task:	The dnscrn command displays the carrier/reseller name and discount index for a directory number..

dnscrn (end)

Command example (Sheet 2 of 2)

MAP response:	TABLE INDEXED BY CGN 761900900 TABLE DNSCRN 761900900 (NETA OCD 101) (CARRSNAM RES11)
Explanation:	The carrier/reseller name and the discount index are displayed.

Responses

The following table explains possible responses to the dnscrn command.

MAP responses with associated meanings and actions

Command:	> dnscrn 13241431
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> dnscrn 13241431
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections
Command:	> dnscrn 13241431
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

intl

Type

The intl command is a nonmenu command.

Target

The command target for the intl command is ALL.

Description

The INTL command determines the tariff for an international call.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The intl command is new for the MMP13 release.

Limitations and restrictions

The intl command has no limits or restrictions.

Syntax

The intl command syntax is as follows:

```
intl <ONDC> <DNDC> <CIC> <MCE> <SCENARIO TYPE>
```

The following table describes the parameters and variables of the intl command.

Command parameter and variable descriptions (Sheet 1 of 2)

Parameters and variables	Value	Description
ONDC	Up to 24 digits	This variable is the directory number (DN) that belongs to the calling party.
DNDC	Up to 30 digits	This variable is the directory number (DN) that belongs to the party who is being called.
CIC	Up to four digits	This variable is the carrier identification code (CIC).

intl (continued)

Command parameter and variable descriptions (Sheet 2 of 2)

Parameters and variables	Value	Description
MCE	PRE, CBC, CBCO, NONE	This is the multi-carrier environment variable. It takes the values preselected (PRE), call-by-call (CBC), call-by-call override (CBCO) and none.
SCENARIO TYPE	CDP, CGP/CDP	This is the scenario type variable. It takes the values CDP for a node running as a CDP and CGP/CDP for a node running as a combined CGP/CDP.

Example

The following table provides an example of the intl command.

Command example (Sheet 1 of 2)

Command:	> intl 76112345 761505050 11 cbc combined
Description of task:	The intl command displays the tariff for an international call.

intl (continued)**Command example (Sheet 2 of 2)**

MAP response:

```

TABLE INDEXED BY CIC 11
  TABLE CARNAME
    11 CAR11 11 11 YES PRE_SEL USE_PRE_SEL

TABLE INDEXED BY CARRIER CAR11, CDN 761505050
  TABLE INTLZONE
    NAOCZONE 102

TABLE INDEXED BY CGN 76112345
  TABLE DNSCRN
    76112345 (CARRSNAM CAR 11

TABLE INDEXED BY CARRSNAM CAR11
  TABLE CARNAME
    11 CAR11 11 11 YES PRE_SEL USE_PRE_SEL

CURRENT TARIFF DATA

TABLE INDEXED BY CARRSNAM CARR11, NAOCZONE 102, TCOINDX 2
  TABLE TARFINDX
    CAR11 102 2 13 113

TABLE INDEXED BY CARRSNAM CARR11, TARFINDX 113
  TABLE TARFDATA
    CAR11 113 ( 16 -1 600 N ) ( 12 -1 0 N )

    - WAS FOUND

NEXT TARIFF DATA

    - WAS NOT FOUND

```

Explanation: The international call tariff is displayed.

Responses

The following table explains possible responses to the intl command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> intl 1341324 68975876 11 pre cdp
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.

intl (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> intl 1341324 68975876 11 pre cdp
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> intl 1341324 68975876 11 pre cdp
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

intlzn

Type

The intlzn command is a nonmenu command.

Target

The command target for the intlzn command is ALL.

Description

The INTLZN command displays the zone for an international zone class call.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The intlzn command is new for the MMP13 release.

Limitations and restrictions

The intlzn command has no limits or restrictions.

Syntax

The intlzn command syntax is as follows:

```
intlzn <CARRESNUM> <DNDC>
```

The following table describes the parameters and variables of the intlzn command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
CARRESNUM	0 TO 79	This variable is the carrier/reseller number.
DNDC	Up to 24 digits	This variable is the directory number of the called party.

intlzn (end)

Example

The following table provides an example of the intlzn command.

Command example

Command:	> intlzn 0 8888512
Description of task:	The intlzn command displays the zone for an international zone call.
MAP response:	TABLE INDEXED BY CARRIER CAR11, CDN 8888512 TABLE INTLZONE NAOCZONE 102
Explanation:	The zone for an international zone call is displayed.

Responses

The following table explains possible responses to the intlzn command.

MAP responses with associated meanings and actions

Command:	> intlzn 0 8888512
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> intlzn 0 8888512
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> intlzn 0 8888512
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

local

Type

The local command is a nonmenu command.

Target

The command target for the local command is ALL.

Description

This command simulates traversal of the NAOC tariff tables for an NOAC local call and displays the result.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

This command is new in this release.

Limitations and restrictions

The local command has no limits or restrictions.

Syntax

The local command syntax is as follows:

```
local <SCENARIO TYPE>
```

The following table describes the parameters and variables of the local command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
SCENARIO TYPE	CDP, COMBINED	The value CDP is used for a node running as a CDP. COMBINED is used for CGP/CDP nodes.

local (continued)

Example

The following table provides an example of the local command.

Command example

Command:	> local 1901234 8008 11 pre cdp
Description of task:	The local command displays the tariff for a local call.
MAP response:	<pre>TABLE INDEXED BY CIC 11 TABLE CARNAME 11 CAR11 11 11 YES PRE_SEL USE_PRE_SEL TABLE INDEXED BY CARRIER CAR11 TABLE LOCLZONE NAOCZONE 3 TABLE INDEXED BY CGN 1901234 TABLE DNSCRN Tuple not found CURRENT TARIFF DATA TABLE INDEXED BY CARRESNAM CAR11, NAOCZONE 3, TCOINDX 3 TABLE TARFINDX CAR11 3 3 2 102 TABLE INDEXED BY CARRSNAM CAR11, TARFINDX 2 TABLE TARFDATA CAR11 2 (10 -2 600 N) (8 -2 600 N) (6 -2 600 N) (4 -2 0 N) - WAS FOUND NEXT TARIFF DATA TABLE INDEXED BY CARRSNAM CAR11, NAOCZONE 3, TCOINDX 4 TABLE TARFINDX CAR11 3 4 1 101 TABLE INDEXED BY CARRSNAM CAR11, TARFINDX 1 TABLE TARFDATA CAR11 1 (8 -2 600 N) (6 -2 0 N) (4 -2 600 N) (2 -2 0 N) - WAS FOUND</pre>
Explanation:	The tariff for a local call is displayed.

Responses

The following table explains possible responses to the local command.

MAP responses with associated meanings and actions

Command:	> local 1901234 8008 11 pre cdp
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> local 1901234 8008 11 pre cdp
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections
Command:	> local 1901234 8008 11 pre cdp
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

localzn

Type

The localzn command is a nonmenu command.

Target

The command target for the localzn command is ALL.

Description

This command retrieves specified local zone information from the LOCLZONE table and displays the results.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The localzn command is new for the MMP13 release.

Limitations and restrictions

The localzn command has no limits or restrictions.

Syntax

The localzn command syntax is as follows:

```
localzn <CARRESNUM>
```

The following table describes the parameters and variables of the localzn command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
CARRESNUM	0 to 79	This is the carrier/reseller number.

Example

The following table provides an example of the localzn command.

Command example (Sheet 1 of 2)

Command:	> localzn 0
Description of task:	The localzn command displays the zone for a local zone call.

localzn (end)**Command example (Sheet 2 of 2)**

MAP response: TABLE INDEXED BY CARRIER CAR11
 TABLE LOCLZONE
 NAOCZONE 3

Explanation: The zone for a local call is displayed.

Responses

The following table explains possible responses to the localzn command.

MAP responses with associated meanings and actions

Command:	> localzn 0
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAO table cannot be indexed because datafill in the NAO table is absent or incorrect.
Actions:	Check the datafill in the NAO tables and make any necessary additions or corrections.
Command:	> localzn 0
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections
Command:	> localzn 0
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

natl

Type

The natl command is a nonmenu command.

Target

The command target for the natl command is ALL.

Description

The natl command displays the tariff for a national call.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

This command is new for this release.

Limitations and restrictions

The natl command has no limits or restrictions.

Syntax

The natl command syntax is as follows:

```
natl <ONDC> <DNDC> <CIC> <MCE> <SCENARIO TYPE>
```

The following table describes the parameters and variables of the natl command.

Command parameter and variable descriptions (Sheet 1 of 2)

Parameters and variables	Value	Description
ONDC	up to 24 digits	This variable is the directory number (DN) that belongs to the calling party.
DNDC	up to 30 digits	This variable is the directory number (DN) that belongs to the party who is being called.
CIC	up to four digits	This variable is the carrier identification code (CIC).

natl (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

Parameters and variables	Value	Description
MCE	PRE, CBC, CBCO, NONE	This is the multi-carrier environment variable. It takes the values preselected (PRE), call-by-call (CBC), call-by-call override (CBCO) and none.
SCENARIO TYPE	CDP, CGP/CDP	This is the scenario type variable. It takes the values CDP for a node running as a charge determination point (CDP) and CGP/CDP for a node running as a combined charge generation point/charge determination point.

Example

The following table provides an example of the natl command.

Command example (Sheet 1 of 2)

Command:	> natl 761930930 761100100 11 pre cdp
Description of task:	The natl command displays the tariff for a national call.

natl (continued)**Command example (Sheet 2 of 2)**

MAP response:	<pre> TABLE INDEXED BY CIC 11 TABLE CARNAME 11 CAR11 11 11 YES PRE_SEL USE_PRE_SEL TABLE INDEXED BY CGN 761930930, CDN 761100100 TABLE NATLZONE NAOCZONE 3 TABLE INDEXED BY RESNAM RES11 TABLE RESNAME RES11 11 USE_PRE_SEL CURRENT TARIFF DATA TABLE INDEXED BY CARRSNAM RES11, NAOCZONE 3, TCOINDX 2 TABLE TARFDATA RES11 216 (110 -2 600 N) (108 -2 600 N) (106 -2 600 N) (104 -2 0 N) TABLE INDEXED BY CARRSNAM RES11, ZONECLAS NATL, NETACD 31 TABLE TARFDISC RES11 NATL 31 30 - WAS FOUND NEXT TARIFF DATA - WAS NOT FOUND </pre>
Explanation:	The tariff for a national call is displayed.

Responses

The following table explains possible responses to the natl command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> natl 761930930 761100100 11 pre cdp
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.

natl (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Command:	> natl 761930930 761100100 11 pre cdp
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> natl 761930930 761100100 11 pre cdp
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

natlzn

Type

The natlzn command is a nonmenu command.

Target

The command target for the natlzn command is ALL.

Description

The natlzn command displays the zone for a national zone class call.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The natlzn command is new for the MMP13 release.

Limitations and restrictions

The natlzn command has no limits or restrictions.

Syntax

The natlzn command syntax is as follows:

```
natlzn <ONDC> <DNDC>
```

The following table describes the parameters and variables of the natlzn command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
ONDC	Up to 24 digits	This variable is the directory number (DN) that belongs to the calling party.
DNDC	Up to 30 digits	This variable is the directory number (DN) that belongs to the party who is being called.

natlzn (end)**Example**

The following table provides an example of the natlzn command.

Command example

Command:	> natlzn 8884 761234
Description of task:	The natlzn command displays the zone for a national zone class call.
MAP response:	TABLE INDEXED BY CGN 8884, CDN 761234 TABLE NATLZONE NAOCZONE 1
Explanation:	The zone for a national zone class call is displayed.

Responses

The following table explains possible responses to the natlzn command.

MAP responses with associated meanings and actions

Command:	> natlzn 8884 761234
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> natlzn 8884 761234
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> natlzn 8884 761234
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

QUERYDF

Type

The querydf command is a nonmenu command.

Target

The command target for the querydf command is SuperNode and BRISC.

Description

The inputs to command querydf are the LEN and the default feature option. The result indicates whether the default feature was deactivated or not from the line.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP14

The querydf command is introduced by activity A59019097 for the MMP14 release.

Limitations and restrictions

The querydf command has no limits or restrictions.

Syntax

The querydf command syntax is as follows:

```
QUERYDF <LEN> <DEFAULT_FEATURE_OPTION>
```

The table that follows describes the parameters and variables of the querydf command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
LEN	00 0 00 01 IWUC	Line Equipment Number of the line

QUERYDF (end)**Example**

The table that follows provides an example of the querydf command.

Command example

Command:	>querydf
Description of task:	indicates whether the given default feature option was active or not on the given LEN
MAP response:	
Explanation:	

Responses

The table that follows explains possible responses to the querydf command.

MAP responses with associated meanings and actions

Command:	>querydf
MAP response:	>QUERYDF 00 0 00 01 IWUC
Meaning:	DEFAULT FEATURE IWUC IS ACTIVE
Actions:	Check that it is the feature which the lines have by default when CEPT is on line.
Command:	>querydf
MAP response:	>QUERYDF 00 0 00 01 IWUC
Meaning:	DEFAULT FEATURE IWUC IS INACTIVE
Actions:	Check that it is the feature which the lines have by default when CEPT is on line.
Command:	>querydf
MAP response:	>QUERYDF 00 0 00 01 XYZ
Meaning:	XYZ IS NOT A DEFAULT FEATURE
Actions:	Check that it is the feature which the lines have by default when CEPT is on line.

quit

Type

The quit command is a nonmenu command.

Target

The command target for the quit command is ALL.

Description

This command exits the NAOCCI CI level.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

This command is new for this release.

Limitations and restrictions

The quit command has no limits or restrictions.

Syntax

The quit command syntax is as follows:

```
quit
```

Example

The following table provides an example of the quit command.

Command example

Command:	> quit
Description of task:	This commands exits from the NAOCCI command level.
MAP response:	CI :
Explanation:	The command returns to the previous level.

Responses

The quit command has no responses.

QWAKEUP

Type

The qwakeup command is a nonmenu command.

Target

The command target for the qwakeup command is SuperNode and BRISC.

Description

The telco administration can interrogate all outstanding wake-up requests by using the CI map level command QWAKEUP. This tool lists all the wakeup requests that are active on the switch. The QWAKEUP command interrogates the LEN and the default feature option. The result indicates whether the feature is active or inactive on that line.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP14

Command qwakeup is introduced by activity A59019097 for the MMP14 release.

Limitations and restrictions

The qwakeup command has no limits or restrictions.

Syntax

The qwakeup command syntax is as follows:

QWAKEUP <FTIME> <TTIME>

The table that follows describes the parameters and variables of the qwakeup command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
<FTIME> <TTIME>	00.00 to 24.00	This is the Time period for which qwakeup command lists all the active Wakeup Call requests. If these parameters are not specified, qwakeup lists all the wakeup requests active in the switch.

QWAKEUP (end)

Example

The table that follows provides an example of the qwakeup command.

Command example

Command:	> qwakeup
Description of task:	The qwakeup command interrogates all outstanding wake-up requests.
MAP response:	
Explanation:	

Responses

The table that follows explains possible responses to the qwakeup command.

MAP responses with associated meanings and actions

Command:	>QWAKEUP 500 1500
Map response	Time: 05:00 - 05:04 DAYINYEAR:364 DNS: 2463002, 3640152 COUNT: 2 Time: 06:15 - 06:19 DAYINYEAR:364 DNS: 2460301, 364543, 246124, 246242, 362112, 576321, 523987, 246639, 392765 COUNT: 11 Time: 14:15 - 14:19 DAYINYEAR:364 DNS: 340301, 340402, 574514 COUNT: 3
Meaning:	QWAKEUP with Time-period
Actions:	Check the total number of requests is 14

Command:	>QWAKEUP
Map response	Time: 05:00 - 05:04 DAYINYEAR:201 DNS: 2463002, 3640152 COUNT: 2 Time: 16:15 - 16:19 DAYINYEAR:201 DNS: 2460301, 364543, 246124, 246242, 362112, 576321, 523987, 246639, 392765 COUNT: 11 Time: 22:30 - 22:35 DAYINYEAR:201 DNS: 340301, 340402, 574514, 2463001, 246404 COUNT: 3
Meaning:	QWAKEUP without Time-period
Actions:	Check the total number of requests is 16

resnam

Type

The resnam command is a nonmenu command.

Target

The command target for the resnam command is ALL.

Description

The resnam command displays the carrier identification code (CIC) and multicarrier environment (MCE) override type.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The resnam command is new for the MMP13 release.

Limitations and restrictions

The resnam command has no limits or restrictions.

Syntax

The resnam command syntax is as follows:

```
resnam <parameter_or_variable>
```

The following table describes the parameters and variables of the resnam command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
RESNUM	16 to 79	This variable is the reseller number.

resnam (continued)

Example

The following table provides an example of the resnam command.

Command example

Command:	> resnam 16
Description of task:	The resnam command retrieves and displays the reseller name (RESNAM), the carrier ID (CIC) and MCE override (MCEOVR) fields.
MAP response:	TABLE INDEXED BY RESNAM RES11 TABLE RESNAME RES11 11 USE_PRE_SEL
Explanation:	The RESNAM, CIC and MCEOVR fields are displayed.

Responses

The following table explains possible responses to the resnam command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> resnam 16
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> resnam 16
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> resnam 16
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.

resnam (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

serv

Type

The serv command is a nonmenu command.

Target

The command target for the serv command is ALL.

Description

The serv command determines the tariff for a service call.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

This command is new for this release.

Limitations and restrictions

The serv command has no limits or restrictions.

Syntax

The serv command syntax is as follows:

```
serv <ONDC> <DNDC> <CIC> <MCE>
```

The following table describes the parameters and variables of the serv command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
ONDC	Up to 24 digits	This variable is the directory number (DN) that belongs to the calling party.
DNDC	Up to 30 digits	This variable is the directory number (DN) that belongs to the party who is being called.
CIC	up to four digits	This variable is the carrier identification code.
MCE	-	Multi-carrier environment.

serv (continued)**Example**

The following table provides an example of the serv command.

Command example

Command:	> serv 1307 1375678 11 pre cdp
Description of task:	The serv command displays the tariff for a service call.
MAP response:	<pre>TABLE INDEXED BY SERVDN 1375678 TABLE SERVZONE 1375678 17 RES11 TABLE INDEXED BY RESNAM RES11 RES11 11 USR_PRE_SEL CURRENT TARIFF DATA TABLE INDEXED BY CARRSNAM RES11, NAOCZONE 17, TCOINX 2 TABLE TARFINDX RES11 17 2 228 228 TABLE INDEXED BY CARRSNAM RES11, TARFINDX 228 TABLE TARFDATA RES11 228 (112 -2 600 N) (110 -2 0 N) - WAS FOUND</pre>
Explanation:	The tariff for the service call is displayed.

Responses

The following table explains possible responses to the serv command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> serv 1307 1375678 11 pre cdp
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> serv 1307 1375678 11 pre cdp
MAP response:	Insufficient digits

serv (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> serv 1307 1375678 11 pre cdp
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

servzn

Type

The servzn command is a nonmenu command.

Target

The command target for the servzn command is ALL

Description

The servzn command displays the zone for a service zone class call.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The servzn command is new for the MMP13 release.

Limitations and restrictions

The servzn command has no limits or restrictions.

Syntax

The servzn command syntax is as follows:

```
servzn <DNDC>
```

The following table describes the parameters and variables of the servzn command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
DNDC	Up to 30 digits	This is the directory number of the called party.

Example

The following table provides an example of the servzn command.

Command example (Sheet 1 of 2)

Command:	> servzn 800723
Description of task:	The servzn command displays the zone for a service zone class call.

servzn (end)

Command example (Sheet 2 of 2)

MAP response:	TABLE INDEXED BY SERVDN TABLE SERVZONE 800723 10 CAR11
Explanation:	The zone for a service zone class call is displayed.

Responses

The following table explains possible responses to the servzn command.

MAP responses with associated meanings and actions

Command:	> servzn 800723
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> servzn 800723
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> servzn 800723
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.
Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

tadata

Type

The tadata command is a nonmenu command.

Target

The command target for the tadata command is ALL.

Description

The tadata command displays subtariffs and currency factors.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The tadata command is new for the MMP13 release.

Limitations and restrictions

The tadata command has no limits or restrictions.

Syntax

The tadata command syntax is as follows:

```
tadata <CARRESNUM> <TARIFF INDEX>
```

The following table describes the parameters and variables of the tadata command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
CARRESNUM	0 to 79	This variable is the carrier/reseller number.
TARIFF INDEX	0 to 255	This variable is the tariff index.

tadata (continued)

Example

The following table provides an example of the tadata command.

Command example

Command:	> tadata 0 1
Description of task:	The tadata command displays the tariff sequence and the setup charge for the specified carrier/reseller and tariff index.
MAP response:	TABLE INDEXED BY CARRSNAM CAR11, TARFINDX 1 TABLE TARFDATA CAR11 1 (8 -2 600 N) (6 -2 0 N) (2 -2 0 N)
Explanation:	The tariff sequence and the setup charge for the specified carrier/reseller and tariff index are displayed.

Responses

The following table explains possible responses to the tadata command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> tadata 0 1
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> tadata 0 1
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> tadata 0 1
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.

tadata (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

tadisc

Type

The tadisc command is a nonmenu command.

Target

The command target for the tadisc command is ALL.

Description

The tadisc command displays discount information.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

This command is new in this release.

Limitations and restrictions

The tadisc command has no limits or restrictions.

Syntax

The tadisc command syntax is as follows:

```
tadisc <CARRESNUM> <DISCOUNT INDEX> <ZONE CLASS>
```

The following table describes the parameters and variables of the tadisc command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
CARRESNUM	0 to 79	This variable is the carrier/reseller number.
DISCOUNT INDEX	0 to 511	This variable is the discount index.
ZONE CLASS	INTL, NATL, LOCAL, SERV	This parameter is the zone class. Use INTL for international number tariffs. Use NATL for national number tariffs. Use SERV for service number tariffs.

tadisc (continued)**Example**

The following table provides an example of the tadisc command.

Command example

Command:	> tadisc 0 natl 1
Description of task:	The tadisc command displays discount information for the carrier/reseller and zone class specified.
MAP response:	TABLE INDEXED BY CARRSNAM CAR11, ZONECLAS NATL, NETAOCD 1 TABLE TARFDISC CAR11 NATL 1 1
Explanation:	The discount information for the carrier/reseller and zone class specified is displayed.

Responses

The following table explains possible responses to the tadisc command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> tadisc 0 natl 1
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> tadisc 0 natl 1
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> tadisc 0 natl 1
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.

tadisc (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

taindx

Type

The taindx command is a nonmenu command.

Target

The command target for the taindx command is ALL.

Description

The taindx command displays the pre-selected tariff index and the call-by-call tariff index.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The taindx command is new for the MMP13 release.

Limitations and restrictions

The taindx command has no limits or restrictions.

Syntax

The taindx command syntax is as follows:

```
taindx <CARRESNUM> <TCO INDEX> <ZONE>
```

The following table describes the parameters and variables of the taindx command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
CARRESNUM	0 to 79	This is the carrier/reseller variable.
TCO INDEX	0 to 31	This is the tariff changeover index variable.
ZONE	0 to 255	This is the zone variable.

taindx (continued)

Example

The following table provides an example of the taindx command.

Command example

Command:	> taindx 3 5 12
Description of task:	The taindx command displays the pre-selected tariff index and the call-by-call tariff index for the carrier/reseller, tariff changeover index and zone specified.
MAP response:	TABLE INDEXED BY CARRESNAM CAR03, NAOCZONE 5, TCOINDX 12 TABLE TARFINDX
Explanation:	The pre-selected tariff index and the call-by-call tariff index for the carrier/reseller, tariff changeover index and zone specified are displayed.

Responses

The following table explains possible responses to the taindx command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> taindx 3 5 12
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> taindx 3 5 12
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> taindx 3 5 12
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.

taindx (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

tcoinf

Type

The tcoinf command is a nonmenu command.

Target

The command target for the tcoinf command is ALL.

Description

The tcoinf command displays tariff changeover information.

Release history

This section identifies if the command is new or changed, and the applicable software release.

MMP13

The tcoinf command is new for the MMP13 release.

Limitations and restrictions

The tcoinf command has no limits or restrictions.

Syntax

The tcoinf command syntax is as follows:

```
tcoinf <CARRESNUM> <ZONE>
```

The following table describes the parameters and variables of the tcoinf command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
CARRESNUM	0 TO 79	This variable is the carrier/reseller number.
ZONE	0 TO 255	This variable is the zone number.

tcoinf (continued)**Example**

The following table provides an example of the tcoinf command.

Command example

Command:	>tcoinf 2 5
Description of task:	The tcoinf command displays tariff changeover information for the specified carrier/reseller and zone.
MAP response:	Tariff changeover information gathered by CARRSNAM CAR02 and NAOCZONE 5 The current tariff index is 3 No tariff changeover scheduled
Explanation:	Tariff changeover information for the specified carrier/reseller and zone is displayed.

Responses

The following table explains possible responses to the tcoinf command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	> tcoinf 2 5
MAP response:	Tuple not found
Meaning:	The tuple associated with this key in an NAOC table cannot be indexed because datafill in the NAOC tables is absent or incorrect.
Actions:	Check the datafill in the NAOC tables and make any necessary additions or corrections.
Command:	> tcoinf 2 5
MAP response:	Insufficient digits
Meaning:	The tuple associated with the keys in an NOAC table cannot be indexed because the keys provide insufficient information.
Actions:	Check the input keys and make any necessary additions or corrections.
Command:	> tcoinf 2 5
MAP response:	Unable to convert carrier/reseller number into name, command failed, traversal aborted.

tcoinf (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Meaning:	The carrier/reseller name corresponding to the input carrier/reseller number cannot be retrieved from the database. The tuple associated with the carrier/reseller number cannot be indexed.
Actions:	Check the datafill in tables CARNAME and RESNAME. Check for datafill corruption. Make any necessary additions or corrections.

19 NCASCI_DIR level commands

This chapter provides an overview of the NCASCI_DIR level. This chapter also provides detailed information on new or changed commands in the NCASCI_DIR level.

The following table alphabetically lists the commands available at the NCASCI_DIR level.

Table 19-1

Command
help
query_ncas
quit
release_ncas

Description

This directory contains all the commands created for the NCAS tool.

How to access the NCASCI_DIR level

Access the NCASCI_DIR level from the CI environment:

```
> prnasci
```

How to return to the CI

Return to the CI environment:

```
>quit
```

help

Type

The help command is a nonmenu command.

Target

The command target for the help command is ALL.

Description

This command displays the help information for the non-call associated signaling (NCAS) tool.

Release history

NA012

This help command was introduced in NA012.

Limitations and restrictions

The help command has no limits or restrictions.

Syntax

The help command syntax is as follows:

help

The following table describes the parameters and variables of the HELP command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
None	NA	There are no parameters for this command.

Example

The following table provides an example of the help command.

Command example (Sheet 1 of 2) (Sheet 1 of 2)

Command:	>help
Description of task:	To display help information about the NCAS tool

help (continued)**Command example (Sheet 2 of 2) (Sheet 2 of 2)**

MAP response:	This is the NCAS call processing BCAS testing tool NCASCI commands are: QUERY_NCAS - To query the NCAS connection RELEASE_NCAS - To release the NCAS connection QUIT - To quit the NCASCI HELP - To display the help on the commands available in NCASCI Use q <command_name> to find help on an individual command.
Explanation:	This help screen displays the NCASCI commands that are available.

Responses

The following table explains possible responses to the help command.

MAP responses with associated meanings and actions (Sheet 1 of 2) (Sheet 1 of 2)

Command:	>help
MAP response:	This is the NCAS call processing NCAS testing tool NCASCI commands are: QUERY_NCAS - To query the NCAS connection RELEASE_NCAS - To release the NCAS connection QUIT - To quit the NCASCI HELP - To display the help on the commands available in NCASCI Use q <command_name> to find help on an individual command.
Meaning:	The MAP displays a list of commands that are available for the NCAS tool.
Actions:	None
Command:	>q query_ncas
MAP response:	COMMAND TO QUERY THE STATE OF THE NCAS Parms: <CMD> (ALL, DTID <node_no> (0 TO 4095) <trmnl_no> (0 TO 4095) <all_or_cr> (ALL, CR <CALL REFERENCE> (0 TO 65535)) NCAS <NCAS Call Number> (0 TO 32767))
Meaning:	The MAP displays the required command parameters for the query_ncas command.

help (end)

MAP responses with associated meanings and actions (Sheet 2 of 2) (Sheet 2 of 2)

Actions:	None
Command:	>q release_ncas
MAP response:	COMMAND TO RELEASE THE NCAS CALL Parms: <CMD> {ALL, DTID <node_no> (0 TO 4095) <trmnl_no> (0 TO 4095) <all_or_cr> (ALL, CR <call reference> (0 TO 65535)), NCAS <NCAS Call Number> (0 TO 32767)}
Meaning:	Displays the required command parameters for the release_ncas command
Actions:	None

query_ncas**Type**

The query_ncas command is a nonmenu command.

Target

The command target for the query_ncas command is ALL.

Description

This command displays the status of the non-call associated signaling (NCAS) connections on the D-channel interface.

Release history**NA012**

Feature A59006499, NCAS Framework, introduced the query_ncas command.

Limitations and restrictions

The query_ncas command has no limits or restrictions.

Syntax

The query_ncas command syntax is as follows:

```
query_ncas [TYPE All,dtid, ncas_idx] [[ALL]
          [DTID <node_no> <trmnl_no>]
          [NCAS <NCAS_IDX>
          CR <call reference>]]
```

The following table describes the parameters and variables of the query_ncas command.

Command parameter and variable descriptions (Sheet 1 of 2)

Parameters and variables	Value	Description
TYPE	ALL, DTID, NCAS	This parameter indicates the release of all NCAS connections on the DMS-100 switch, all connections on a single PRI interface, or a single connection specified by index.
node_no	1–24	This parameter indicates the node number of the D-channel.
trmnl_no	0–4095	This parameter indicates the terminal number of the D-channel.

query_ncas (continued)

Command parameter and variable descriptions (Sheet 2 of 2)

Parameters and variables	Value	Description
ncas_idx	0–2000	This parameter is the NCAS index associated with a particular NCAS call.
CR	0–65 535	This parameter is the call reference number of a particular NCAS call.

Example

The following table provides an example of the query_ncas command.

Command example (Sheet 1 of 2)

Command:	>query_ncas
Description of task:	Display the status of the NCAS connections on the D-channel interface
MAP response:	NN TRM Index State CR Timer Val Fac# Scope Call# Client
Explanation:	• NN indicates the node number of the D-channel that contains the NCAS call. Its value range is (0–4095). • TRM indicates the terminal number of the D-channel that contains the NCAS call. Its value range is (0–4095). • Index indicates the NCAS index. This can be used with release_ncas to release NCAS calls. The value range is (0–2000). • State indicates the state of the NCAS call. This field can have the following values: — NULL—The NCAS call is free. — INIT—An NCAS call has been initiated. — ACTIVE—The NCAS call is active. • CR indicates the call reference of the active NCAS call. Its value range is (0–65 535). • Timer indicates whether this NCAS connection is monitored by an inactivity timer. • Val indicates the value of the timer if the timer specified in the previous field is set to TRUE. • Fac# indicates the number of facility messages received on this NCAS connection.

query_ncas (continued)**Command example (Sheet 2 of 2)**

- Scope indicates the scope of the NCAS call.
- Call# indicates the slot number of the NCAS call. There are 20 possible slots in the slot map for the D-channel (for internal use only)
- Client indicates the client of this NCAS connection.

Responses

The following table explains possible responses to the query_ncas command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>query_ncas all
MAP response:	<pre> NN TRM Index State CR Timer Val Fac# Scope Call# Client 13 313 0 ACTIVE 0001 FALSE 0 0 LOCAL 5 MWI 11 185 2 ACTIVE 0003 FALSE 0 0 LOCAL 4 MWI 11 185 4 ACTIVE 0004 FALSE 0 0 LOCAL 5 MWI 11 25 1 ACTIVE 0003 FALSE 0 0 LOCAL 3 MWI 11 25 3 ACTIVE 0004 FALSE 0 0 LOCAL 4 MWI </pre>
Meaning:	This response displays information for all NCAS connections on the DMS switch.
Actions:	None required
Command:	>query_ncas dtid 11 185 all
MAP response:	<pre> NN TRM Index State CR Timer Val Fac# Scope Call# Client 11 185 2 ACTIVE 0003 FALSE 0 0 LOCAL 4 MWI 11 185 4 ACTIVE 0004 FALSE 0 0 LOCAL 5 MWI </pre>
Meaning:	This response displays the status of all NCAS connections for a specific node and terminal combination.
Actions:	None required
Command:	>query_ncas ncas 4
MAP response:	<pre> NN TRM Index State CR Timer Val Fac# Scope Call# Client 11 185 4 ACTIVE 0004 FALSE 0 0 LOCAL 5 MWI </pre>
Meaning:	This response displays the status of a specific node, terminal, and index combination
Actions:	None required

query_ncas (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

MAP response:	No Active NCAS connections
Meaning:	There are no active NCAS connections on this DTID.
Actions:	None required
MAP response:	Invalid Terminal Number
Meaning:	This response indicates the command was aborted before entering the terminal number.
Actions:	Enter the correct terminal number.
MAP response:	Invalid symbol
Meaning:	This response indicates that the command was not entered in the correct format.
Actions:	Use the correct command format.
MAP response:	No tuple in table
Meaning:	This response indicates the call reference used to display the NCAS connection is not active.
Actions:	None

quit**Type**

The quit command is a nonmenu command.

Target

The command target for the quit command is ALL.

Description

The quit command quits the NCAS tool and returns to the CI prompt.

Release history**NA012**

The quit command was introduced in NA012.

Limitations and restrictions

The quit command has no limits or restrictions.

Syntax

The quit command syntax is as follows:

```
quit [<nlevels> <incrname> <all>
```

The following table describes the parameters and variables of the QUIT command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
<nlevels>	1	Quits one level and returns to the CI prompt.
<incrname>	prncasci, all	Quits the NCASCI_DIR directory and returns to the CI prompt.

Example

The following table provides an example of the QUIT command.

Command example (Sheet 1 of 2)

Command:	>quit
Description of task:	Quit the NCASCI_DIR directory.

quit (end)

Command example (Sheet 2 of 2)

MAP response:	Returns to the CI prompt.
Explanation:	The MAP screen quits the NCASCI_DIR and returns to the CI prompt.

Responses

The following table explains possible responses to the quit command.

MAP responses with associated meanings and actions

Command:	>quit
MAP response:	The MAP screen returns to the CI prompt.
Meaning:	The MAP screen quits the NCASCI_DIR and returns to the CI prompt.
Actions:	None required
Command:	>quit prncasci
MAP response:	The MAP screen returns to the CI prompt.
Meaning:	The MAP screen quits the NCASCI_DIR directory and returns to the CI prompt.
Actions:	None required
Command:	>quit all
MAP response:	The MAP screen returns to the CI prompt.
Meaning:	The MAP screen quits all levels and returns to the CI prompt.
Actions:	None required
Command:	>quit 1
MAP response:	The MAP screen returns to the CI prompt.
Meaning:	The MAP screen quits one level and returns to the CI prompt.
Actions:	None required

release_ncas

Type

The release_ncas command is a nonmenu command.

Target

The command target for the release_ncas command is ALL.

Description

The release_ncas command releases non-call associated signaling (NCAS) connections.

Release history**NA012**

Feature A59006499, NCAS Framework, introduced the release_ncas command.

Limitations and restrictions

The release_ncas command has no limits or restrictions.

Syntax

The release_ncas command syntax is as follows:

```
release_ncas    [TYPE All, dtid, ncas][[ALL]
                                     [DTID <node_no><trmnl_no>
                                     <ALL/CR>[ALL
                                     CR<CALL REF>]]
                                     [NCAS<ncas idx>]]
```

The following table describes the parameters and variables of the release_ncas command.

Command parameter and variable descriptions (Sheet 1 of 2)

Parameters and variables	Value	Description
TYPE	ALL, DTID, NCAS	This parameter indicates the release of all NCAS connections on the DMS-100 switch, all connections on a single PRI interface, or a single connection specified by index.
node_no	1–24	This parameter indicates the node number of the D-channel.
trmnl_no	0–4095	This parameter indicates the terminal number of the D-channel.

release_ncas (continued)

Command parameter and variable descriptions (Sheet 2 of 2)

Parameters and variables	Value	Description
ncas_idx	0–2000	This parameter is the NCAS index associated with a particular NCAS call.
CR	0–65 535	This parameter is the call reference number of a particular NCAS call.

Example

The following table provides an example of the release_ncas command.

Command example

Command:	>release_ncas all
Description of task:	Release an NCAS call on D-channel 123 57 with call reference 19.
MAP response:	None
Explanation:	There is no display when a connection is released. Use the query_ncas command to verify the status of the call that was released.

Responses

The following table explains possible responses to the release_ncas command. The responses for the release_ncas command are displays for error conditions only.

MAP responses with associated meanings and actions (Sheet 1 of 2)

Command:	>release_ncas <parameters>
MAP response:	Invalid D-channel
Meaning:	This response indicates the TID entered is either a non-NI D-channel or is not a D-channel.
Actions:	Enter the correct value of the D-channel.
Command:	>release_ncas <parameters>
MAP response:	Invalid Node Number
Meaning:	This response indicates the command was aborted before entering the node number.
Actions:	None

release_ncas (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Command:	>release_ncas <parameters>
MAP response:	Invalid Terminal Number
Meaning:	This response indicates the command was aborted before entering the terminal number.
Command:	>release_ncas <parameters>
MAP response:	Invalid symbol
Meaning:	This response indicates the command was not entered in the correct format.
Actions:	Use the correct format.

20 OCDL level commands

This chapter provides an overview of the OCDL level. This chapter also provides detailed information on new or changed commands in the OCDL level.

The following table alphabetically lists the commands available at the OCDL level.

Table 20-1

Command
bsy
listset
next
offl
post
qocdl
quit
recreate
rts

Description

This level of the MAP provides a maintenance user interface to monitor and change the states of operator centralization internet protocol (OC-IP) data links.

How to access the OCDL level

Access the OCDL level from the CI environment:

```
> mapci;mtc;appl;topsip;octl
```

How to return to the CI

Return to the CI environment:

```
> quit all
```

MAP display

The following figure shows an example of the MAP display at the OCDL level.

Figure 20-1 Example of a MAP display at the OCDL level

CM	MS	IOD	Net	PM	CCS	Lns	Trks	Ext	APPL
.	.								
OCDL			OAMAP		SDM	SWMTC	SDMBIL	TOPSIP	
0 Quit									
2 Post_									
3 ListSet									
4			TOPSDEV	OCDL					
5									
6									
7 Bsy			Status	OffL	ManB	Insv	SysB		
8 Rts			OCDL	0	0	16	0		
9 OffL									
10			HOST1 3 COMID 1 InSv						
11			Size of Post set: 1						
12 Next									
13									
14			OCDL:						
15									
16									
17									
18 QOCDL									
TEAM3									
Time 11:01 >									

bsy (ocdl)

Type

The BSY command is a menu listed command.

Target

The command target for the BSY command is BRISC or XACORE.

Description

The BSY command allows posted OC-IP data link(s) to be manual busied (ManB). The BSY command is valid when the data link is OFFL, InSv, or SysB. Multiple data links are busied by executing the BSY command with the ALL option. If a data link is in the ManB state, it does not accept a BSY command attempt.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TOPS13

Feature 5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

Qualifications and warnings

After the user invokes the BSY command, which will affect InSv OC-IP data links, a warning message is displayed indicating that placing the data link(s) in the ManB state affects operator services and active calls, followed by a confirmation prompt.

Syntax

The BSY command syntax is as follows:

- > bsy (busy the posted, displayed data link)
- > bsy all (busy all data links in the post set)

Example

The following table provides an example of the BSY command.

Command example (Sheet 1 of 2)

Command:	> bsy all

bsy (ocdl) (continued)

Command example (Sheet 2 of 2)

Description of task:	ManB all data links in the post set. For this example, there are 3 data links in the post set.
MAP response:	Warning: This action will take OC-IP data links out of service and will affect Operator Services and active calls. Are you sure you wish to proceed (Y/N)? >y BSY Passed BSY Passed BSY Passed Passed

Responses

The following table explains possible responses to the BSY command.

MAP responses with associated meanings and actions (Sheet 1 of 2)

MAP response:	BSY Passed
Meaning:	The data link(s) changes to the ManB state without any errors.
Actions:	None.
MAP response:	Request Invalid: data link is unequipped
Meaning:	The data link currently posted has been deleted from OCIPDL datafill.
Actions:	Enter the HELP command to get more information on the BSY command.
MAP response:	Request invalid: data link is ManB
Meaning:	The data link is currently ManB.
Actions:	Enter the HELP command to get more information on the BSY command.
MAP response:	Request invalid: MTC already in progress for data link.
Meaning:	The data link already has a maintenance action being performed on it.
Actions:	Enter the HELP command to get more information on the BSY command.
MAP response:	No OCDL Posted
Meaning:	There are no data links posted. As a result, nothing is busied.

bsy (ocdl) (end)

MAP responses with associated meanings and actions (Sheet 2 of 2)

Actions:	Post data link(s) before issuing the BSY command.
MAP response:	Either incorrect optional parameter(s) or too many parameters
Meaning:	The user entered the wrong parameter(s)
Actions:	Enter the HELP command to get more information on the BSY command.

listset (ocdl)

Type

The LISTSET command is a menu listed command.

Target

The command target for the listset command is BRISC or XACORE.

Description

The listset command allows a listing of all of the OC-IP data links in the post set.

Note: if a data link in the post set is deleted, the LISTSET command does not display the deleted data link.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TOPS13

Feature A5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

Qualifications and warnings

None.

Syntax

The LISTSET command syntax is as follows:

```
> listset
```

Example

The following table provides examples of the LISTSET command.

Command example (Sheet 1 of 2)

Command:	<code>> listset</code>

listset (ocdl) (end)**Command example (Sheet 2 of 2)**

Description of task:	List all data links in the post set.
MAP response:	REMOTE1 0 COMID 1 InSV REMOTE1 1 COMID 2 InSV REMOTE1 2 COMID 3 ManB REMOTE1 3 COMID 4 SysB

Responses

The following table explains possible responses to the LISTSET command.

MAP responses with associated meanings and actions

MAP response:	Data Links in the post set are listed.
Meaning:	The post set is listed with data link and state.
Actions:	None.
MAP response:	No ODL Posted
Meaning:	The post set is empty.
Actions:	Post desired data links and attempt the LISTSET command again.
MAP response:	LISTSET does NOT utilize any parameters.
Meaning:	The user entered parameter(s) and the LISTSET command does not use any parameters.
Actions:	Re-enter the LISTSET command without any parameters.

next (ocdl)

Type

The NEXT command is a menu listed command.

Target

The command target for the NEXT command is BRISC or XACORE.

Description

The NEXT command steps the MAP display to the next data link in the post set.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TOPS13

Feature A5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

Qualifications and warnings

None.

Syntax

The NEXT command syntax is as follows:

```
> next
```

Example

The following table provides examples of the NEXT command.

Command example

Command:	> next
Description of task:	Post the Next data link in the post set
MAP response:	HOST1 2 COMID 1 ManB

Responses

The following table explains possible responses to the NEXT command.

MAP responses with associated meanings and actions

MAP response:	<Distant Office> <Data Link Number> COMID <COMIDNum> <STATE>
Meaning:	The next data link in the post set replaces the display of the currently posted data link.
Actions:	Continue maintenance on the newly posted data link.
MAP response:	End of post set
Meaning:	Either the post set was empty or no more data link(s) are in the post set
Actions:	None
MAP response:	Next does NOT use any parameters
Meaning:	The wrong parameter(s) was entered.
Actions:	Re-enter the NEXT command with no parameters.

offl (ocdl)

Type

The OFFL command is a menu listed command.

Target

The command target for the OFFL command is BRISC or XACORE.

Description

The OFFL command moves an OC-IP data link(s) from the ManB state to the OFFL state. An OC-IP data link can only be deleted from table OCIPDL while in the OFFL state.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TOPS13

Feature A5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

Qualifications and warnings

None.

Syntax

The OFFL command syntax is as follows:

> offl (offl the posted, displayed data link)

> offl all (offl the post set)

Example

The following table provides examples of the OFFL command.

Command example

Command:	> post O HOST1 1;offl
Description of task:	Off-line HOST1 1
MAP response:	OFFL Passed

offl (ocdl) (end)**Responses**

The following table explains possible responses to the OFFFL command.

MAP responses with associated meanings and actions

MAP response:	OFFFL Passed
Meaning:	The OFFFL command was successful without any errors.
Actions:	None.
MAP response:	Request Invalid: data link is (UnEq or OffL or SysB or InSv)
Meaning:	The OFFFL command could not be executed because the data link was not ManB..
Actions:	Issue the BSY command to busy the data link before executing the OFFFL command.
MAP response:	No OCDL Posted
Meaning:	The OFFFL command could not be executed without a data link posted.
Actions:	Issue a POST command and then attempt the OFFFL command again.
MAP response:	Either incorrect optional parameter(s) or too many parameters
Meaning:	The wrong parameter(s) was issued.
Actions:	Enter the HELP command for information on the OFFFL command.
MAP response:	Request Invalid: MTC already in progress for data link
Meaning:	The posted data link is currently receiving maintenance.
Actions:	Wait until maintenance is complete.

post (ocdl)

Type

The POST command is a menu listed command.

Target

The command target for the POST command is BRISC or XACORE.

Description

The POST command allows posting of a single or set of operator centralization internet protocol (OC-IP) data links for maintenance purposes.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TOPS13

Feature A5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

Qualifications and warnings

The command only OC-IP datafilled data links into the post set.

Syntax

The POST command syntax is as follows:

```
> post 0 <distant office name> <data link number = 0 to 7>
> post 0 <distant office name>
> post S <state = sysb, manb, offl, insv, or uneq>
> post C <comid number>
> post all
```

post (ocdl) (continued)

The following table describes the parameters and variables of the POST command.

Command parameter and variable descriptions

Parameters and variables	Value	Description
O	<distant office name>	Post all data links to the specified office..
O	<distant office name> <data link number>	Post an individual OC-IP data link to the specified office name for the indicated data link number (0 to 3).
S	<state>	Post all OC-IP data links in the specified state.
C	<comid number>	Post an individual data link associated with the specified COMID.
ALL	n/a	Post all OC-IP data links.

Example

The following table provides examples of the POST command.

Command example (Sheet 1 of 2)

Command:	> post O HOST1 0
Description of task:	Post the first data link (number 0) to the distant office (HOST1)
MAP response:	HOST1 COMID 5 InSv Size of Post Set: 1
Command:	> post O REMOTE1
Description of task:	Post all of the data links to the distant office (REMOTE1)
MAP response:	REMOTE1 0 COMID 3 InSv Size of Post Set: 4
Command:	> post S ManB
Description of task:	Post all OC-IP data links that are ManB
MAP response:	HOST1 3 COMID 4 ManB Size of Post Set : 5
Command:	> post C 1

post (ocdl) (continued)

Command example (Sheet 2 of 2)

Description of task:	Post the OC-IP data link with COMID 1
MAP response:	HOST1 1 COMID 6 InSv Size of Post Set: 1

Responses

The following table explains possible responses to the POST command.

MAP responses with associated meanings and actions (Sheet 1 of 3)

MAP response:	Either incorrect optional parameter(s) or too many parameters.
Meaning:	The user did not enter the correct parameter(s)
Actions:	Enter the HELP command to get more information on the POST command.
MAP response:	Invalid symbol: <DL_Selector> {O <OFFICE> STRING [<DLNUM> {0 TO 7}], C <COMID> {0 TO 1023}, S <STATE> ... {OFFL, MANB, SYSB, INSV}}, ALL}
Meaning:	The user did not specify a valid selector when using the POST command.
Actions:	Enter the HELP command to get more information on the POST command.
MAP response:	Next par is: <DL_Selector> {O <OFFICE> STRING [<DLNUM> {0 TO 7}], C <COMID> {0 TO 1023}, S <STATE> ... {OFFL, MANB, SYSB, INSV}}, ALL}
Meaning:	The user did not specify a required parameter.

post (ocdl) (continued)**MAP responses with associated meanings and actions (Sheet 2 of 3)**

Actions:	Enter the HELP command to get more information on the POST command.
MAP response:	The office is not datafilled in OCOFC Could Not Create Post Set
Meaning:	The user specified a distant office NOT datafilled in table OCOFC.
Actions:	Check table OCOFC.
MAP response:	No data links for this office are datafilled in OCIPDL Could Not Create Post Set
Meaning:	The user specified an OC office provisioned in table OCOFC, but with no links datafilled in table OCIPDL.
Actions:	Check table OCIPDL.
MAP response:	The data link is not datafilled in OCIPDL Could Not Create Post Set
Meaning:	The user specified an office and data link number combination NOT provisioned in OCIPDL.
Actions:	Check table OCIPDL.
MAP response:	The COMID is not datafilled in OCIPDL Could Not Create Post Set
Meaning:	The user did not specify a COMID datafilled in table OCIPDL.
Actions:	Check table OCIPDL.
MAP response:	There are no data links in the (OffL, ManB, SysB, InSv) state Could Not Create Post Set
Meaning:	The user is requesting to post all the data links in a specified mtc state. However, there are no data links in the specified mtc state.
Actions:	View the data links counts for each mtc state at the OCDL MAP level.
MAP response:	The COMID is not datafilled in OCIPDL. Could Not Create Post Set
Meaning:	The user specified a COMID NOT provisioned in table OCIPDL.
Actions:	Datafill table OCIPDL.

post (ocdl) (end)

MAP responses with associated meanings and actions (Sheet 3 of 3)

MAP response:	<Distant Office> <Data Link Number> COMID <COMIDNum < State> Size of Post Set: <Number>
Meaning:	The post command was executed successfully.
Actions:	The system posts a set of data links as a response to the successful execution of the post command. The first data link in the post set is displayed for the user.

qocdl (ocdl)

Type

The QOCDL command is a menu listed command.

Target

The command target for the QOCDL command is BRISC or XACORE.

Description

The QOCDL command displays information for the posted OC-IP data link as follows:

- data link and state
- SysB reason
- COMID number
- local XPM name and number
- local IP address and port
- remote IP address and port

This command is only allowed for the posted data link listed on the MAP (one at a time), it cannot be executed for the entire posted set.

Note: This command is invalid if the data link is in the UnEq state.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TOPS13

Feature A5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

Qualifications and warnings

None.

Syntax

The QOCDL command syntax is as follows:

- ```
> qocdl (retrieve information from datafill)
> qocdl cntrs (retrieve socket information from XPM)
```

**qocdl (ocdl)** (continued)

---

As indicated above, when no parameter is entered, information is retrieved from datafill. If the CNTRS parameter is used, socket information (IP address and port number) is retrieved from the XPM.

**Example**

The following table provides examples of the QOCDL command.

**Command example**

|                             |                                                                                                                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > qocdl                                                                                                                                                                                                                                                                                |
| <b>Description of task:</b> | Display information on posted data link MXPIPHOST 0. Since no parameters were entered, datafill from table QOCDL is displayed.                                                                                                                                                         |
| <b>MAP response:</b>        | QOCDL<br><br>Data Link : MXPIPHOST 0<br>Data Link State : InSv<br>SysB Reason : No Failure<br>COMID : 71<br>XPM : DTC 3<br>Local IP Address : 192.168.6.4<br>Local Port Number : 7001<br>Distant End IP Address : 47.245.1.24<br>Distant End Port Number : 7009                        |
| <b>Command:</b>             | > qocdl cntrs                                                                                                                                                                                                                                                                          |
| <b>Description of task:</b> | Display information on posted data link MXPIPHOST 0.                                                                                                                                                                                                                                   |
| <b>MAP response:</b>        | QOCDL<br><br>Data Link : MXPIPHOST 0<br>Data Link State : InSv<br>SysB Reason : No Failure<br>COMID : 71<br>XPM : DTC 3<br>Local IP Address : 192.168.6.4<br>Local Port Number : 7001<br>Distant End IP Address : Not kept by the XPM<br>Distant End Port Number : Not kept by the XPM |

**qocdl (ocdl) (end)****Responses**

The following table explains possible responses to the QOCDL command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | QOCDL executed in an invalid state                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Meaning:</b>      | The data link is in the UnEq state.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Actions:</b>      | Datafill the data link in table OCIPDL and re-issue the QOCDL command.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>MAP response:</b> | No Data Link Posted                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Meaning:</b>      | There is no data link posted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Actions:</b>      | Post a data link and re-issuing the QOCDL command.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MAP response:</b> | QOCDL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                      | Data Link :[Distant Office] [Data Link Number]<br>Data Link State : [Data Link State]<br>SysB Reason : [No Failure, CM Child Dead, CM Resource Failure, Peripheral Failure, Network Failure, End to End Connectivity Failure]<br>COMID :[COMID for Data Link]<br>XPM : [XPM name] [XPM number]<br>Local IP Address : [0-255].[0-255].[0-255].[0-255]<br>Local Port Number : [1024-65625]<br>Distant End IP Address : [0-255].[0-255].[0-255].[0-255]<br>Distant End Port Number : [1024 to 65625] |
| <b>Meaning:</b>      | The QOCDL command is successful.<br><br>Refer to the TOPS IP User's Guide for an explanation of the SysB reasons and the possible failure scenarios associated with each OCIP-DL SysB reason.<br><br>Note: The XPM (Local) IP address may be unknown if BOOTP or DHCP is being used by the link and the CNTRS option is not specified. Or, it may appear as unknown if the CNTRS option is specified, and communication to the XPM fails.                                                         |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## quit (ocdl)

---

### Type

The QUIT command is a menu listed command.

### Target

The command target for the QUIT command is BRISC or XACORE.

### Description

The QUIT command exits from the OCDL level and returns to the previous level..

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

### Qualifications and warnings

None

### Syntax

The QUIT command syntax is as follows:

```
> QUIT
> QUIT <nlevels>
> QUIT<incrname>
> QUIT ALL
```

The above commands are as follows:

- QUIT: Quits the current MAP level.
- QUIT <nlevels>: Quits the indicated number of MAP levels.
- QUIT <incrname>: Quits the OCDL level, and preceding levels back to and including <incrname>, leaving the user in the MAP level entered prior to <incrname>. Possible values of <incrname> are TOPSIP, APPL, MTC, and MAPCI.
- QUIT ALL: Quits all MAP levels and returns to the CI level.

**quit (ocdl) (end)****Example**

The following table provides examples of the QUIT command.

**Command example**

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| <b>Command:</b>             | > QUIT ALL                                         |
| <b>Description of task:</b> | Quit out of all levels and return to the CI level. |
| <b>MAP response:</b>        | CI:                                                |
| <b>Command:</b>             | > QUIT or QUIT OCDL                                |
| <b>Description of task:</b> | Quit out of the OCDL level.                        |
| <b>MAP response:</b>        | Control is changed to the TOPSIP MAP level.        |

**Responses**

The following table explains possible responses to the QUIT command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Change to a different map level                                                                     |
| <b>Meaning:</b>      | The QUIT command was successfully executed.                                                         |
| <b>Actions:</b>      | None. Control is returned to the level specified by the user.                                       |
| <b>MAP response:</b> | QUIT -- Unable to quit requested number of levels                                                   |
| <b>Meaning:</b>      | An invalid level number was entered for the variable parameter.                                     |
| <b>Actions:</b>      | Control remains at the OCDL MAP level. Re-enter the command using the appropriate number of levels. |
| <b>MAP response:</b> | QUIT -- Increment not found                                                                         |
| <b>Meaning:</b>      | An invalid increment was entered for the variable parameter.                                        |
| <b>Actions:</b>      | Control remains at the OCDL MAP level. Re-enter the command using the appropriate increment.        |

## recreate (ocdl)

---

### Type

The RECREATE command is a hidden command.

### Target

The command target for the RECREATE command is BRISC or XACORE.

### Description

The RECREATE command recreates any needed OC-IP data link MTC child processes.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

### Qualifications and warnings

None.

### Syntax

The RECREATE command syntax is as follows:

```
> recreate
```

### Example

The following table provides examples of the RECREATE command.

#### Command example

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>Command:</b>             | > recreate                          |
| <b>Description of task:</b> | Recreate a child data link process. |
| <b>MAP response:</b>        | RECREATE restarted 1 process(es)    |

---

**recreate (ocdl) (end)**

---

## Responses

The following table explains possible responses to the RECREATE command.

### MAP responses with associated meanings and actions

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| <b>MAP response:</b> | RECREATE restarted <number> process(es)                                               |
| <b>Meaning:</b>      | The display indicates the RECREATE command successfully recreated <number> processes. |
| <b>Actions:</b>      | Necessary data link child processes are restarted.                                    |
| <b>MAP response:</b> | RECREATE does NOT utilize any parameters                                              |
| <b>Meaning:</b>      | A parameter(s) was added but none are allowed for this command.                       |
| <b>Actions:</b>      | Re-enter the command with no parameters.                                              |



## **rts (ocdl)**

---

### **Type**

The RTS command is a menu listed command.

### **Target**

The command target for the RTS command is BRISC or XACORE.

### **Description**

The RTS command, when successful, brings a data link to the InSv state. The data link must be in the ManB state and SOC ENSV0026, TOPS IP Operator Centralization, must be ON when RTS is issued.

The RTS command is successful if the data port (socket) associated with the data link's COMID can be opened. As well, the local end must have data connectivity with the distant end.

If the RTS command fails, the data link is marked SysB. Please refer to the TOPS IP User's Guide for possible causes of SysB.

### **Release history**

This section identifies if the command is new or changed, and the applicable software release.

#### **TOPS13**

Feature A5903936 in functionality TOPS IP Operator Centralization, ENSV0026, introduced this command.

### **Qualifications and warnings**

None.

### **Syntax**

The RTS command syntax is as follows:

```
> rts (rts the posted, displayed data link)
> rts all (rts all data links in the post set)
```

**rts (ocdl)** (continued)**Example**

The following table provides examples of the RTS command.

**Command example**

|                             |                                                                               |
|-----------------------------|-------------------------------------------------------------------------------|
| <b>Command:</b>             | > rts all                                                                     |
| <b>Description of task:</b> | RTS all posted data links (for this example there are 3 data links).          |
| <b>MAP response:</b>        | RTS Passed<br>RTS Passed<br>RTS Passed                                        |
| <b>Command:</b>             | > rts                                                                         |
| <b>Description of task:</b> | RTS (for this example there is a data link whose socket could not be opened). |
| <b>MAP response:</b>        | RTS Failed: HOST1 1 COMID 1 Network Failure                                   |

**Responses**

The following table explains possible responses to the RTS command.

**MAP responses with associated meanings and actions (Sheet 1 of 3)**

|                      |                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | RTS Passed                                                                                                                                 |
| <b>Meaning:</b>      | The RTS command was successful, and the data link is marked InSv.                                                                          |
| <b>Actions:</b>      | None.                                                                                                                                      |
| <b>MAP response:</b> | Request Invalid: data link is InSv                                                                                                         |
| <b>Meaning:</b>      | The data link is in the InSv state.                                                                                                        |
| <b>Actions:</b>      | None                                                                                                                                       |
| <b>MAP response:</b> | Request Invalid: data link is (UnEq or OffL or SysB)                                                                                       |
| <b>Meaning:</b>      | The data link is not in the ManB state. The data link must be in the ManB state in order to issue the RTS command.                         |
| <b>Actions:</b>      | If datafill exists for the link, execute the BSY command to cause the data link to change to ManB, and then attempt the RTS command again. |
| <b>MAP response:</b> | Either incorrect optional parameter(s) or too many parameters.                                                                             |

**rts (ocdl)** (continued)

---

**MAP responses with associated meanings and actions (Sheet 2 of 3)**

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The wrong parameter(s) were entered.                                                          |
| <b>Actions:</b>      | Enter the HELP command for information on the RTS command.                                    |
| <b>MAP response:</b> | No OCDL Posted                                                                                |
| <b>Meaning:</b>      | There is no data link posted, so no action is taken.                                          |
| <b>Actions:</b>      | Post data link(s) before issuing the RTS command.                                             |
| <b>MAP response:</b> | SOC option ENSV0026 must be ON to RTS an OCDL                                                 |
| <b>Meaning:</b>      | The TOPS IP Operator Central SOC is not turned on.                                            |
| <b>Actions:</b>      | This SOC must be turned on in order to RTS OC-IP data links.                                  |
| <b>MAP response:</b> | Request Invalid: MTC already in progress for data link.                                       |
| <b>Meaning:</b>      | The posted data link is already receiving maintenance.                                        |
| <b>Actions:</b>      | Wait until maintenance is complete.                                                           |
| <b>MAP response:</b> | RTS Failed: Problem with CM messaging.                                                        |
| <b>Meaning:</b>      | The user entered the RTS command, but there is a problem with CM messaging.                   |
| <b>Actions:</b>      | Refer to the TOPS IP User's Guide for possible causes.                                        |
| <b>MAP response:</b> | RTS Failed: Problem with XPM messaging.                                                       |
| <b>Meaning:</b>      | The user entered the RTS command, but there is a problem with XPM messaging.                  |
| <b>Actions:</b>      | Refer to the TOPS IP User's Guide for possible causes.                                        |
| <b>MAP response:</b> | RTS Failed: Miscellaneous CM failure..                                                        |
| <b>Meaning:</b>      | The user entered the RTS command, but there is a miscellaneous CM failure.                    |
| <b>Actions:</b>      | Refer to the TOPS IP User's Guide for possible causes.                                        |
| <b>MAP response:</b> | RTS Failed: Problem with distant end.                                                         |
| <b>Meaning:</b>      | The user entered the RTS command, but there was a problem communicating with the distant end. |
| <b>Actions:</b>      | Refer to the TOPS IP User's Guide for possible causes.                                        |
| <b>MAP response:</b> | RTS Failed: XPM is in an out of service state.                                                |

---

**rts (ocdl) (end)**

---

**MAP responses with associated meanings and actions (Sheet 3 of 3)**

|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The user entered the RTS command, but the XPM is out of service.                                                                                   |
| <b>Actions:</b>      | Refer to the TOPS IP User's Guide for possible causes.                                                                                             |
| <b>MAP response:</b> | RTS Failed: MTC Child Process is Dead.                                                                                                             |
| <b>Meaning:</b>      | The user entered the RTS command, but the OC-IP data link child process has died.                                                                  |
| <b>Actions:</b>      | To make this link usable, issue the RECREATE command.                                                                                              |
| <b>MAP response:</b> | RTS Failed: SOC state is idle.                                                                                                                     |
| <b>Meaning:</b>      | The OC-IP SOC was in the ON state when the RTS command was invoked. However, the SOC state is IDLE when the RTS request arrives for the data link. |
| <b>Actions:</b>      | Set the SOC state ON.                                                                                                                              |



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## 21 PHRRCI level commands

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This chapter provides an overview of the PHRRCI level. This chapter also provides detailed information on new or changed commands in the PHRRCI level.

The following table alphabetically lists the commands available at the PHRRCI level.

**Table 21-1**

| Command |
|---------|
| move    |

### Description

Use the PHRRCI level of the MAP to access the move command. The move command moves the Logical Terminal Identifier (LTID) from one X.25/X.75 Service Group (XSG) to another XSG.

### How to access the PHRRCI level

Access the PHRRCI level from the CI environment:

```
>phrrci
```

### How to return to the CI

Return to the CI environment:

```
>quit
```

## move

---

### Type

The move command is a nonmenu command.

### Target

The command target for the move command is BRISC.

### Description

Use the move command to move the LTID to destinations such as X.25/X.75 service group (XSG), X.25/X.75 link interface unit (XLIU), or from one XSG to another XSG.

### Release history

#### NA012

Feature 59006435, User loopback testing (echo station), enables the phrrci command to move LTID from one XSG to another XSG.

### Limitations and restrictions

Feature 59006435, User loopback testing (echo station), allows a maximum of five echo station LTIDs to be provisioned for a XLIU.

### Syntax

The move command syntax is as follows:

```
move <LTID> to <XSG>{0 to 749}
 <XLIU>
 [Force]
```

**Note:** The text string <LTID>, <XSG>, <XLIU> indicate the functions of the command, are not considered as variable names, and are not part of the command syntax. Do not enter values to replace these text strings.

The following table describes the parameters and variables of the phrrci command.

#### Command parameter and variable descriptions (Sheet 1 of 2)

| Parameters and variables | Value                                  | Description                                                                                     |
|--------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------|
| LTID                     | 0 to 32 for LTGRP, 1 to 1022 for LTNUM | LTID=line terminal identifier, LTGRP=logically terminal group, LTNUM=logically terminal number. |
| XSG                      | 0 to 749                               | X.25/X.75 service group number                                                                  |

**move** (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value | Description                                                         |
|--------------------------|-------|---------------------------------------------------------------------|
| XLIU                     |       | X.25/X.75 link interface unit                                       |
| Force                    |       | This option is used to release the LTID and drop calls in progress. |

**Example**

The following table provides an example of the phrrci command.

**Command example**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;move</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description of task:</b> | Move LTID pkt 60 to xsg 101. The force option is used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MAP response:</b>        | <pre> &gt;phrrci PHRRCI Packet Resource Reassignment Tool:  &gt;move pkt 60 to xsg 101 force Force releasing this LTID will drop any calls in progress Do you wish to continue with the move? Please confirm ("YES", "Y", "NO", or "N"): Request Queued at position 1 Processing Started on Request 1 INFO - Current LTMAP ewntry has been removed (PKT 60) INFO - New LTMAP entry for ES has been successfully created  RESULT - LTID (PKT 60) successfully moved from XSG 100 to XSG 101 WARNING - The LTID may not have returned to service successfully Manual intervention may be required Done. </pre> |
| <b>Explanation:</b>         | LTID Pkt 60 moved from XSG 100 to XSG 101.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



## **move** (end)

---

### **Responses**

The following table explains possible responses to the phrrci command.

#### **MAP responses with associated meanings and actions**

|                      |                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;move</b>                                                                                                         |
| <b>MAP response:</b> | ERROR - XSG 100 (XLIU 0) has no space for ES links.                                                                     |
| <b>Meaning:</b>      | You attempt to move a echo station LTID to a XLIU that has the maximum of 5 echo station LTIDs provisioned on it.       |
| <b>Actions:</b>      | Decrease the number of echo station LTIDs provisioned on the XLIU by removing some of the LTIDs or select another XLIU. |
| <b>Command:</b>      | <b>&gt;move</b>                                                                                                         |
| <b>MAP response:</b> | ERROR - New XSG add in LTMAP failed for ECHO STATION.                                                                   |
| <b>Meaning:</b>      | Addition of the tuple for a new XSG to table LTMAP failed.                                                              |
| <b>Actions:</b>      | Retry to add a valid tuple for the new XSG to table LTMAP.                                                              |

---

## 22 PRADCH level commands

---

This chapter provides an overview of the PRADCH level. This chapter also provides detailed information on new or changed commands in the PRADCH level.

The following table alphabetically lists the commands available at the PRADCH level.

**Table 22-1**

| Command |
|---------|
| bsy     |
| connect |
| cont    |
| equip   |
| loopbk  |
| rts     |

### Description

Use the PRADCH level of the MAP to maintain integrated services digital network (ISDN) digital trunk controller (DTCI) B-channels and D-channels. B-channels are 64-kb/s digital bidirectional channels used to carry circuit-switched voice, data, or packet-switched data. D-channels are channels used to carry call control messages between a terminal on an ISDN interface and the exchange termination.

### How to access the PRADCH level

Access the PRADCH level from the CI environment:

```
>mapci;mtc;trks;ttp;pradch
```

## How to return to the CI

Return to the CI environment:

**>quit**

## MAP display

The following figure shows an example of the MAP display of the PRADCH level.

**Figure 22-1 Example of a MAP display of the PRADCH level**

| CM     | MS       | IOD      | Net    | PM       | CCS      | Lns | Trks | Ext | APPL |
|--------|----------|----------|--------|----------|----------|-----|------|-----|------|
| .      | .        | .        | .      | .        | .        | .   | .    | .   | .    |
| PRADCH |          |          |        |          |          |     |      |     |      |
| 0      | Quit     | POST     | DELQ   | BSYQ     | DIG      |     |      |     |      |
| 2      | Post_    | TTP      | 6-0005 |          |          |     |      |     |      |
| 3      |          | CKT TYPE | PM NO. | COM LANG | STA S R  | DOT | TE   |     |      |
| 4      | Equip_   | 2W IS    | DTCI   | 10 0 19  | PRACLLI0 | D1  | INS  |     |      |
| 5      | Connect_ |          |        |          |          |     |      |     |      |
| 6      |          |          |        |          |          |     |      |     |      |
| 7      | BSY      |          |        |          |          |     |      |     |      |
| 8      | RTS      |          |        |          |          |     |      |     |      |
| 9      | SWACT    |          |        |          |          |     |      |     |      |
| 10     |          |          |        |          |          |     |      |     |      |
| 11     | HOLD     |          |        |          |          |     |      |     |      |
| 12     | Next     |          |        |          |          |     |      |     |      |
| 13     |          |          |        |          |          |     |      |     |      |
| 14     |          |          |        |          |          |     |      |     |      |
| 15     | CONT     |          |        |          |          |     |      |     |      |
| 16     | LOOPBK   |          |        |          |          |     |      |     |      |
| 17     |          |          |        |          |          |     |      |     |      |
| 18     | LEVEL    |          |        |          |          |     |      |     |      |

---

**bsy**

---

**Type**

The bsy command is a menu listed command.

**Target**

The command target for the bsy command is ALL.

**Description**

Use the bsy command to remove the posted circuit from service by changing the state to the specified busy state.

This command allows a user to manually bsy a B or D-channel on a primary rate interface (PRI). This command is not available for PRI trunks that have the Internet protocol (IP) option provisioned in table TRKGRP. No manual maintenance is allowed on IP PRI trunk members. The state of these channels tracks the state of the gateway node to which the trunks terminate.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA012**

Feature 59010280 introduced the optionIP for PRI.

**Limitations and restrictions**

The following limitation and restrictions apply to the bsy command:

- Busying a circuit makes it unavailable for call processing. Circuits can be busied either manually when maintenance personnel put the circuit into the manual busy (ManB) state or automatically when the system performs the same action.
- Manual busy has priority to override any out-of-service state.
- The specified group of circuits or the entire posted set can be busied by placing the circuits in BUSYQALL. As circuits become available, the circuits are busied and deleted from the BUSYQALL.
- If any circuits in the BUSYQALL do not become available within four minutes of being queued, the system no longer attempts to busy them.
- When busying transmission links in an office equipped with Common Channel Signaling (CCIS6), CCITT6, and CCS7, an outage of the entire associated trunk group can occur.
- The bsy command is the only command that has an effect on trunks involved in a wideband intertoll trunk(IT) Integrated Services Digital

**bsy** (continued)

---

Network user part (ISUP). If a trunk is call processing busy (CPB) and the bsy command is done on a trunk in the control position, the trunk state is changed to call processing deloaded (CPD). CPD is an indication to call processing software that a trunk is not to be set idle (IDL) when the call is released. The trunk state is changed from CPD to ManB and the trunk is no longer available for call processing.

- If the entire wideband IT ISUP trunk group is posted in the control position and the busy all command string bsy all is issued, all trunks that are CPB are changed to CPD and set to ManB upon call disconnect.

**Syntax**

The bsy command syntax is as follows:

```
bsy [<1st PARM> {INB,
 MB,
 ALL,
 A,
 D1,
 D2,
 FORCES}]
```

The following table describes the parameters and variables of the bsy command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                                                                                                                                                        |
|--------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INB                      | N/A   | This parameter places the channel in the installation busy state.                                                                                                                                  |
| MB                       | N/A   | This parameter places the channel in the manual busy (ManB) state. The B-channel indicates ManB and the D-channel indicates ManB.                                                                  |
| ALL                      | N/A   | This parameter removes all the channels in the posted set from service. For circuits that were previously posted by group (by the command string post g), all circuits in the group are made busy. |
| A                        | N/A   |                                                                                                                                                                                                    |
| D1                       | N/A   | This parameter indicates the primary D-channel.                                                                                                                                                    |
| D2                       | N/A   | This parameter indicates the secondary D-channel.                                                                                                                                                  |
| FORCES                   | N/A   |                                                                                                                                                                                                    |

**bsy** (continued)**Example**

The following table provides an example of the bsy command.

**Command example**

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| <b>Command:</b>             | <b>bsy mb d1</b>                                      |
| <b>Description of task:</b> | Place the primary D-channel in the ManB state.        |
| <b>MAP response:</b>        | STATE CHANGED.                                        |
| <b>Explanation:</b>         | The header shows the d1 channel is in the ManB state. |

There is no change to the bsy command example.

**Responses**

The following table explains possible responses to the bsy command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                   |
|----------------------|---------------------------------------------------|
| <b>Command:</b>      | <b>&gt;bsy</b>                                    |
| <b>MAP response:</b> | D1 OR D2 IS INVALID.                              |
| <b>Meaning:</b>      | There is no valid D-channel 1 or 2.               |
| <b>Actions:</b>      | None                                              |
| <b>Command:</b>      | <b>&gt;bsy</b>                                    |
| <b>MAP response:</b> | FAILED, NO CIRCUIT.                               |
| <b>Meaning:</b>      | The command failed because no circuit was posted. |
| <b>Actions:</b>      | None                                              |
| <b>Command:</b>      | <b>&gt;bsy</b>                                    |
| <b>MAP response:</b> | FAILED TO SEIZE CKT.                              |
| <b>Meaning:</b>      | The command failed to seize a circuit.            |
| <b>Actions:</b>      | None                                              |
| <b>Command:</b>      | <b>&gt;bsy</b>                                    |

**bsy** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | PARAMETER IS INB<br>or<br>INVALID PARAMETER 1<br>PARAMETER IS MB<br>or<br>PARAMETER 1 DOES NOT EXIST                                                                                                                                                                                           |
| <b>Meaning:</b>      | An attempt was made to busy the posted circuit into an invalid state, that is, a state not included in the parameter list.                                                                                                                                                                     |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | > <b>bsy</b>                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | INVALID PARAMETER 2<br>PARAMETER 2 IS D1 OR D2                                                                                                                                                                                                                                                 |
| <b>Meaning:</b>      | An attempt was made to busy a D-channel using a wrong command option for parameter 2 while both D-channel are in the post position.                                                                                                                                                            |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | > <b>bsy</b>                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | STATE CHANGED.                                                                                                                                                                                                                                                                                 |
| <b>Meaning:</b>      | The posted trunks have been placed in the requested state.                                                                                                                                                                                                                                     |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | > <b>bsy</b>                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | THESE WILL PUT DTCI XX X XX DCH OUT OF SERVICE<br>PLEASE CONFIRM (YES OR NO)?                                                                                                                                                                                                                  |
| <b>Meaning:</b>      | An attempt was made to busy a D-channel in the INS state. To leave the D-channel in the INS state, enter NO. To busy the designated D-channel, enter YES.<br>Note: If both D-channels are posted, NO causes the STB D-channel to be made busy, and YES causes both D-channels to be made busy. |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                           |

There is no change to the bsy command responses.

---

**[[connect]]**

---

**[[Type]]**

[The connect command is a menu listed command.]]

**[[Target]]**

[The command target for the connect command is ALL.]]

**[[Description]]**

[Use the connect command to connect the monitoring equipment reserved with the equip command to a primary rate interface (PRI) D-channel for the purpose of monitoring the PRI D-channel. The PRI D-channel can be posted at the PRADCH MAP level. Once posted, the connect command followed by the equip# can be issued.]

[The connect command allows a user to connect digital test access (DTA) test equipment to a PRI D-channel for monitoring PRI protocol messages. This command is not allowed on the Internet protocol (IP) PRI, because while the interface between the XMS-based peripheral module and the gateway node appears to be a PRI, the messaging protocol is not strict Q.931 (at layer 2).]]

**[[Release history]]**

[This section identifies if the command is new or changed, and the applicable software release.]

**[[NA012]]**

[Feature 59010280 introduced option IP for PRI.]]]

**[[Limitations and restrictions]]**

[[The following limitations and restrictions apply to the connect command:]]

- [[[[DTA allocates channels on links between the monitoring equipment and the monitored point, and makes connections across peripheral and network modules between those channels. These channels are unavailable to call processing while the DTA connection is active.]]]]
- [[If the PRI D-channel also has a backup D-channel posted, d1 or d2 must be entered to distinguish between the two D-channels.]]
- [[d1 or d2 can only be entered when both the primary and secondary D-channels are posted together.]]]]]



**connect** (continued)

---

**[[Syntax]**

[[The connect command syntax is as follows:]]

```
[connect <eqno> {1 TO 20}
 [<action> {VERIFY,
 RLS}]]]
```

[[The following table describes the parameters and variables of the connect command.]]]

**Command parameter and variable descriptions**

| Parameters and variables | Value       | Description                                                                                                                                                                            |
|--------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| chnl                     | 1 (d1, d2)  | The parameter "1" identifies an available d-channel on a post set. With two available d-channels, identify the specific channel as either d1 or d2.                                    |
| eqno                     | 1 to 20     | This variable specifies the monitoring equipment number (given when the monitoring equipment was reserved with the equip command) to be used in the DTA connection. The range is 1–20. |
| action                   | VERIFY, RLS | Choose to either verify or release a connected channel.                                                                                                                                |
| VERIFY                   | N/A         | This parameter verifies the currently connected channel.                                                                                                                               |
| RLS                      | N/A         | This parameter causes the channel currently connected to be released.                                                                                                                  |

**[[Example]**

[[The following table provides an example of the connect command.]]]

**Command example**

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| [Command:]             | >connect 1 ( specifies the channel to be connected.)                                                    |
| [Description of task:] | Connect monitoring equipment with number 1.                                                             |
| [MAP response:]        | CKT TYPE PM NO.    COM LANG  STA S R DOT TE RESULT<br>[2W  IS  IS  LTC  0  8  24  LTC0T0LTC1  DCH  INS] |
| [Explanation:]         | This is a typical display response to the connect command.                                              |

**connect** (continued)**[[Responses]**

[[The following table explains possible responses to the connect command.]]]

**MAP responses with associated meanings and actions (Sheet 1 of 10) (Sheet 1 of 10)**

|                        |                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[MAP response:]</b> | [DTA cannot be connected, PRI node does not have UP processors.]                                                                                                                       |
| <b>[Meaning:]</b>      | You issued the connect command with a posted PRI D-channel which was supported by an XPM without unified processor (UP) cards.                                                         |
| <b>[Actions:]</b>      | Post a PRI D-channel supported by an XPM with UP cards and issue the connect command again or convert the existing XPM so it has UP cards.                                             |
| <b>[MAP response:]</b> | [DTA cannot be connected, PRI node has enhanced timeswitch.]                                                                                                                           |
| <b>[Meaning:]</b>      | You issued the connect command with a posted PRI D-channel, which was supported by an XPM with an enhanced timeswitch.                                                                 |
| <b>[Actions:]</b>      | Post a PRI D-channel supported by an XPM without an enhanced timeswitch and issue the connect command again or convert the existing XPM so it has a 6X44 timeswitch.                   |
| <b>[MAP response:]</b> | [ERROR: Remove DTA connections before changing CSLINKS and/or<br>][ERROR: Delete Network SPECCONN connections before changing CSLINKS.]                                                |
| <b>[Meaning:]</b>      | You tried to change the CSIDE LINKS on an XPM involved in a DTA or network SPECCONN connection.                                                                                        |
| <b>[Actions:]</b>      | Remove DTA using the connect command with the rls option available at the PRADCH MAP level or remove network SPECCONN connections from table SPECCONN and then change the CSIDE LINKS. |
| <b>[MAP response:]</b> | [Posted channel is not a PRI D-channel.]                                                                                                                                               |
| <b>[Meaning:]</b>      | You issued command when the posted channel was not a PRI D-channel.                                                                                                                    |
| <b>[Actions:]</b>      | Post the PRI D-channel that is to be monitored and issue the correct command again.                                                                                                    |
| <b>[MAP response:]</b> | [Remove DTA from PRI D-channel before changing/deleting tuple.]                                                                                                                        |
| <b>[Meaning:]</b>      | You tried to change or delete a tuple in table TRKSGRP that involved a PRI D-channel being monitored by DTA.                                                                           |

**connect** (continued)

---

**MAP responses with associated meanings and actions (Sheet 2 of 10) (Sheet 2 of 10)**

|                 |                                                                                                                                                                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Actions:]      | Remove DTA using the connect command with the rls option available at the PRODCH MAP level and then change the TRKSGRP tuple.                                                                                                                                                                                    |
| [MAP response:] | [CANNOT CONNECT MONITOR TX]                                                                                                                                                                                                                                                                                      |
| [Meaning:]      | When the connect command and the mtr parameter were invoked on a data line in the control position, a system fault prevented the transmit direction monitor connection from being made to the data line.                                                                                                         |
| [Actions:]      | Contact the support group to determine the required maintenance action.                                                                                                                                                                                                                                          |
| [MAP response:] | [CANNOT CONNECT MONITOR TX]                                                                                                                                                                                                                                                                                      |
| [Meaning:]      | When the connect command and the mtr parameter were invoked on a data line in the control position, a system fault prevented the transmit direction monitor connection from being made to the data line.                                                                                                         |
| [Actions:]      | Contact the support group to determine the maintenance action that is required.                                                                                                                                                                                                                                  |
| [MAP response:] | [COMMAND IS NOT APPROPRIATE FOR RCU LINE]                                                                                                                                                                                                                                                                        |
| [Meaning:]      | The connect command was invoked on a remote carrier unit (RCU) line in the control position.                                                                                                                                                                                                                     |
| [Actions:]      | None                                                                                                                                                                                                                                                                                                             |
| [MAP response:] | [[COMMAND NOT ALLOWED FOR SPECIAL SERVICE LINES]                                                                                                                                                                                                                                                                 |
| [Meaning:]      | The system cannot perform the connect command on a nailed-up special service connection.                                                                                                                                                                                                                         |
| [Actions:]      | None                                                                                                                                                                                                                                                                                                             |
| [MAP response:] | [COULD NOT CONNECT TEST LINE]                                                                                                                                                                                                                                                                                    |
| [Meaning:]      | The connect command and the test parameter were invoked on a data line in the control position when the data line is in an improper state, or a system fault prevented the connection of the test line to the data line.                                                                                         |
| [Actions:]      | [[The first or both of the following actions is required: ]] <ul style="list-style-type: none"><li>• [[[Post the monitor line by DN and verify that it is in the IDL state.]]</li><li>• [[ If the line is in the IDL state, contact the support group to determine the required maintenance action.]]]</li></ul> |
| [MAP response:] | [COULD NOT CONNECT DN]                                                                                                                                                                                                                                                                                           |

**connect** (continued)**MAP responses with associated meanings and actions (Sheet 3 of 10) (Sheet 3 of 10)**

|                        |                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Meaning:]</b>      | When the connect command and the d and dn parameters were invoked on a data line in the control position, the attempted force connection of a data line to the data line in the control position was prevented due to either the line in the control position being in an improper state or due to a system fault.     |
| <b>[Actions:]</b>      | [[The first or both of the following actions is required: ]]<br><ul style="list-style-type: none"> <li>• [[[Post the monitor line by DN and verify that it is in the IDL state.]]</li> <li>• [[[If the line is in the IDL state, contact the support group to determine the required maintenance action.]]]</li> </ul> |
| <b>[MAP response:]</b> | [DN CONNECTED]                                                                                                                                                                                                                                                                                                         |
| <b>[Meaning:]</b>      | The connect command and the d and dn parameters were invoked on a data line in the control position causing the specified data line to be force connected to the data line in the control position.                                                                                                                    |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [DN dn IS ALREADY CONNECTED TO dn<br>][PLEASE RELEASE THE CONNECTION FIRST]                                                                                                                                                                                                                                            |
| <b>[Meaning:]</b>      | When the connect command and the d and dn parameters were invoked on a data line in the control position, the line that is being force connected to the line in the control position is currently connected to the DN that is specified at the end of the response.                                                    |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [DN NOT CONNECTED]                                                                                                                                                                                                                                                                                                     |
| <b>[Meaning:]</b>      | When the connect command and the string c cli dn parameter were invoked, the trunk for the DN was not force connected because the state of the data line in the control position or in the remote switch is not suitable.                                                                                              |
| <b>[Actions:]</b>      | [[The following sequence of actions is required: ]]<br><ul style="list-style-type: none"> <li>• [[[Verify that the state of the data line in the control position is IDL. ]]</li> <li>• [[[Verify that the state of the remote data line is IDL.]]]</li> </ul>                                                         |
| <b>[MAP response:]</b> | [DN RELEASED]                                                                                                                                                                                                                                                                                                          |
| <b>[Meaning:]</b>      | The connect command and the rls parameter were invoked on a data line in the control position that was connected to a remote data line, causing the remote line to be released.                                                                                                                                        |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [INVALID CLI]                                                                                                                                                                                                                                                                                                          |

**connect** (continued)

---

**MAP responses with associated meanings and actions (Sheet 4 of 10) (Sheet 4 of 10)**

|                        |                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Meaning:]</b>      | When the connect command and the string c cli dn parameter were invoked at the switch that contains the data unit (DU) that is under test, a digital trunk is not seized because the CLLI of the specified trunk group is not valid in that switch.                                                                                                                       |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                      |
| <b>[MAP response:]</b> | [IDENTIFIER IS NOT THAT OF A TRUNK]                                                                                                                                                                                                                                                                                                                                       |
| <b>[Meaning:]</b>      | The connect command or the equip command is invoked with the c parameter and an associated CLLI that does not identify a trunk group.                                                                                                                                                                                                                                     |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                      |
| <b>[MAP response:]</b> | [MONITOR CALL CONNECTED]                                                                                                                                                                                                                                                                                                                                                  |
| <b>[Meaning:]</b>      | The connect command and the call parameter were invoked at the central message controller (CMC) switch, causing the monitor data line card at the CMC to be connected to the equipped digital trunk.                                                                                                                                                                      |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                      |
| <b>[MAP response:]</b> | [MONITOR CALL NOT CONNECTED]                                                                                                                                                                                                                                                                                                                                              |
| <b>[Meaning:]</b>      | When the connect command and the call parameter were invoked at the CMC switch, the monitor data line in the control position could not be connected to the equipped digital trunk.                                                                                                                                                                                       |
| <b>[Actions:]</b>      | [[One or more of the following actions is required:] <ul style="list-style-type: none"><li>• [[Verify that the data line in the control position is in the IDL state.]]</li><li>• [[Diagnose the data line in the control position. ]]</li><li>• [[Return the data line in the control position to service and then invoke the command and parameters again.]]]</li></ul> |
| <b>[MAP response:]</b> | [[MON RX CONNECTED]                                                                                                                                                                                                                                                                                                                                                       |
| <b>[Meaning:]</b>      | The connect command and the mtr parameter were invoked on a data line in the control position after the equip command and the mtr rx d dn string parameter were invoked, causing the seized receive direction monitor equipment to be connected to the line in the control position, either directly or using a digital trunk.                                            |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                      |
| <b>[MAP response:]</b> | [[[MON RX CONNECTED]                                                                                                                                                                                                                                                                                                                                                      |

**connect** (continued)**MAP responses with associated meanings and actions (Sheet 5 of 10) (Sheet 5 of 10)**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Meaning:]</b>      | <p>[[When the connect command and one of the following parameter strings is invoked: ]</p> <ul style="list-style-type: none"> <li>• [[mtr]]</li> <li>• [[d dn]]</li> <li>• [[c clli dn]]</li> </ul> <p>[[the receiving direction monitor equipment is not connected for one or more of the following reasons: ]</p> <ul style="list-style-type: none"> <li>• [[[The monitor trunk is not connected to the line in the control position.]]</li> <li>• [[The DN of the monitor DU was not outputted to the CMC switch. ]]</li> <li>• [[The data line is not in the appropriate state. ]]</li> <li>• [[The digital trunk is not in appropriate CLLI state.]]]</li> </ul> |
| <b>[Actions:]</b>      | <p>[[The following courses of action are required when they are applicable: ]]</p> <ul style="list-style-type: none"> <li>• [[[Verify that the monitor trunk is connected to the data line in the control position. ]]</li> <li>• [[Diagnose the data line that is under test. ]]</li> <li>• [[Verify that the state of the data line under test and the state of the monitor DU data line are IDL.]]</li> <li>• [[Verify that the state of the digital trunk is either IDL or INI.]]]</li> </ul>                                                                                                                                                                     |
| <b>[MAP response:]</b> | [[MON RX RELEASED]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>[Meaning:]</b>      | The connect command and the rls parameter were invoked on a data line in the control position whose receive path was connected to a monitor circuit, causing the monitor circuit connection to release.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>[MAP response:]</b> | [MON TX CONNECTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>[Meaning:]</b>      | The connect command and the mtr parameter were invoked on a data line in the control position, after the equip command and the mtr tx d dn parameter string were invoked, causing the seized transmit direction monitor equipment to be connected to the line in the control position, either directly or using a digital trunk.                                                                                                                                                                                                                                                                                                                                      |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>[MAP response:]</b> | [[MON TX NOT CONNECTED]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**connect** (continued)**MAP responses with associated meanings and actions (Sheet 6 of 10) (Sheet 6 of 10)**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Meaning:]</b>      | <p>[[When the connect command and one of the following parameter strings was invoked: ]</p> <ul style="list-style-type: none"> <li>• [[mtr]]</li> <li>• [[d dn]]</li> <li>• [[c clli dn]]]</li> </ul> <p>[[the transmitting direction monitor equipment was not connected for one or more of the following reasons: ]]</p> <ul style="list-style-type: none"> <li>• [[[The monitor trunk is not connected to the line in the control position.]]</li> <li>• [[The DN of the monitor DU was not outputted to the CMC switch. ]]</li> <li>• [[The data line is not in the appropriate state. ]]</li> <li>• [[The digital trunk is not in CLLI appropriate state.]]]</li> </ul> |
| <b>[Actions:]</b>      | <p>[[The following courses of action are required when they are applicable: ]</p> <ul style="list-style-type: none"> <li>• [[[Verify that the monitor trunk is connected to the data line in the control position. ]]</li> <li>• [[Diagnose the data line that is under test. ]]</li> <li>• [[Verify that the state of the data line under test and the state of the monitor DU data line are IDL. ]]</li> <li>• [[Verify that the state of the digital trunk is either IDL or INI.]]]</li> </ul>                                                                                                                                                                            |
| <b>[MAP response:]</b> | [[MON TX RELEASED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>[Meaning:]</b>      | The connect command and the rls parameter were invoked on a data line in the control position whose receive path was connected to a monitor circuit, causing the monitor circuit connection to release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>[MAP response:]</b> | [NO EQUIPMENT CONNECTED]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>[Meaning:]</b>      | When the connect command and the rls and all parameters were invoked, there was no test or monitor equipment connected to any data lines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>[MAP response:]</b> | [[[NO EQUIPMENT CONNECTED TO POSTED LINE]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>[Meaning:]</b>      | The connect command and the rls parameter were invoked on a data line in the control position when no monitor or test equipment is connected to the line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**connect** (continued)**MAP responses with associated meanings and actions (Sheet 7 of 10) (Sheet 7 of 10)**

|                        |                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[MAP response:]</b> | [NO MONITOR LINE EQUIPPED]                                                                                                                                                             |
| <b>[Meaning:]</b>      | The connect command and the mtr parameter were invoked on a data line in the control position when monitor equipment has not been seized.                                              |
| <b>[Actions:]</b>      | None                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [NO MONITOR LINE SEIZED]                                                                                                                                                               |
| <b>[Meaning:]</b>      | The connect command and the mtr parameter were invoked on a data line in the control position when a monitor line is not currently seized.                                             |
| <b>[Actions:]</b>      | None                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [NO POSTED LINE]                                                                                                                                                                       |
| <b>[Meaning:]</b>      | The connect command and the parameter were invoked when there is no line in the control position.                                                                                      |
| <b>[Actions:]</b>      | None                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [NO TEST LINE EQUIPPED]                                                                                                                                                                |
| <b>[Meaning:]</b>      | The connect command and the test parameter were invoked when there is no test line seized.                                                                                             |
| <b>[Actions:]</b>      | None                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [POSTED LINE IS NOT A DATA LINE]                                                                                                                                                       |
| <b>[Meaning:]</b>      | The connect command and the call parameter were invoked on a line in the control position at the CMC switch that is not a data line.                                                   |
| <b>[Actions:]</b>      | None                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [PRIVILEGED COMMAND]                                                                                                                                                                   |
| <b>[Meaning:]</b>      | The connect command and the test parameter were invoked on a data line in the control position by a tester that is not authorized to access this command.                              |
| <b>[Actions:]</b>      | None                                                                                                                                                                                   |
| <b>[MAP response:]</b> | [[TEST LINE ALREADY CONNECTED TO DN]                                                                                                                                                   |
| <b>[Meaning:]</b>      | The connect command and the test parameter were invoked when the test line is connected to a DN. The characters dn represent the directory number to which the test line is connected. |
| <b>[Actions:]</b>      | None                                                                                                                                                                                   |



**connect** (continued)**MAP responses with associated meanings and actions (Sheet 8 of 10) (Sheet 8 of 10)**

|                        |                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[MAP response:]</b> | [TEST LINE CONNECTED]                                                                                                                                                                                                                                                          |
| <b>[Meaning:]</b>      | The connect command and the test parameter were invoked on a data line in the control position, causing the test line to be connected to the line in the control position.                                                                                                     |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [[TEST LINE NOT SEIZED]                                                                                                                                                                                                                                                        |
| <b>[Meaning:]</b>      | The connect command and the test parameter were invoked on a data line in the control position, causing the test line to be connected to the line in the control position.                                                                                                     |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [TEST RELEASED]                                                                                                                                                                                                                                                                |
| <b>[Meaning:]</b>      | The connect command and the rls parameter were invoked on a data line in the control position that was connected to a test line, causing the test line to be disconnected from the line in the control position.                                                               |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [[TEST TRUNK CONNECTED]                                                                                                                                                                                                                                                        |
| <b>[Meaning:]</b>      | The connect command and the test parameter, or the test mtr parameter string, were invoked at the switch that contains the DU that is under test causing a two-way digital trunk from the CMC switch to be connected to the data line that is in the control position.         |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [TEST TRUNK NOT CONNECTED]                                                                                                                                                                                                                                                     |
| <b>[Meaning:]</b>      | When the connect command and the test parameter, or the test mtr parameter string, were invoked at the switch that contains the DU that is under test, a digital trunk from the CMC switch was not connected to the data line that is in the control position.                 |
| <b>[Actions:]</b>      | [[One or both of the following actions is required: ]<br><ul style="list-style-type: none"> <li>• [[[Verify that the data line in the control position is in the IDL state. ]]</li> <li>• [[Verify that the digital trunk is in the IDL state or the INI state.]]]]</li> </ul> |
| <b>[MAP response:]</b> | [TEST TRUNK NOT SEIZED]                                                                                                                                                                                                                                                        |
| <b>[Meaning:]</b>      | The connect command and the test parameter were invoked on a data line in the control position when the test trunk is not seized.                                                                                                                                              |

**connect** (continued)**MAP responses with associated meanings and actions (Sheet 9 of 10) (Sheet 9 of 10)**

|                        |                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [[THIS COMMAND DOES NOT APPLY TO RCS LINES]                                                                                                                                                                                    |
| <b>[Meaning:]</b>      | The connect command was invoked on an SLC-96 line in the control position.                                                                                                                                                     |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [[TRUNK FOR DN NOT SEIZED]                                                                                                                                                                                                     |
| <b>[Meaning:]</b>      | When the connect command and the c cli dn parameter string were invoked at the switch that contains the DU that is under test, a digital trunk to the CMC switch was not seized.                                               |
| <b>[Actions:]</b>      | Verify that the digital trunk is in the IDL state or the INI state.                                                                                                                                                            |
| <b>[MAP response:]</b> | [TRUNK FOR DN SEIZED]                                                                                                                                                                                                          |
| <b>[Meaning:]</b>      | The connect command and the c cli dn parameter string were invoked at the switch that contains the DU that is under test, causing a digital trunk to the CMC switch to be seized.                                              |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [TRUNK IS NOT TWO WAY, PLEASE SELECT ANOTHER AND RE-ISSUE THE COMMAND.]                                                                                                                                                        |
| <b>[Meaning:]</b>      | When the connect command and the test c cli dn parameter string were invoked at the switch that contains the DU that is under test, a cli for a one-way trunk group was specified rather than a cli for a two-way trunk group. |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [TRUNK MUST BE EITHER DP OR MF]                                                                                                                                                                                                |
| <b>[Meaning:]</b>      | When the connect command and the c cli dn parameter string were invoked at the switch that contains the DU that is under test, the trunk that was specified by the cli is neither a dp type nor an mf type.                    |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                           |
| <b>[MAP response:]</b> | [TRY CONNECT RELEASE ALL]                                                                                                                                                                                                      |
| <b>[Meaning:]</b>      | The connect command and the rls parameter were invoked when there is no line in the control position.                                                                                                                          |
| <b>[Actions:]</b>      | None                                                                                                                                                                                                                           |

## **connect** (end)

---

### **MAP responses with associated meanings and actions (Sheet 10 of 10) (Sheet 10 of 10)**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[MAP response:]</b> | [UNABLE TO SEIZE POSTED LINE]                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>[Meaning:]</b>      | When the connect command and the parameter c cli dn string were invoked, the data line in the control position could not be seized.                                                                                                                                                                                                                                                                                       |
| <b>[Actions:]</b>      | [[One or more of the following actions is required:] <ul style="list-style-type: none"><li>• [[[Diagnose the data line in the control position. ]]</li><li>• [[Release any connections to the data line in the control position and invoke the command and these parameters again. ]]</li><li>• [[Return the data line in the control position to service and then invoke the command and parameters again.]]]]</li></ul> |

**[[Type]**

[The cont command is a menu listed command.]]

**[[Target]**

[The command target for the cont command is ALL.]]

**[[Description]**

[The cont command allows a user to run a continuity test on the posted D-channel. The cont command is not allowed on the Internet protocol (IP) primary rate interface (PRI). ]]

**[[Release history]**

[This section identifies if the command is new or changed, and the applicable software release.]

**[[NA012]**

[Feature 59010280 introduced option IP for PRI.]]]

**[[Limitations and restrictions]**

[[The following limitations and restrictions apply to the cont command:]]

- [[[Before invoking the cont command, the D-channel must be in the manual busy (ManB) state.]]
- [[When the system runs either the internal or external continuity test, the following sequence of events takes place:]
  - [[[All calls associated with the posted D-channel are dropped.]]
  - [[The D-channel is removed from service.]]
  - [[A loopback point is set.]]
  - [[The test is performed.]]
  - [[The loopback point is removed.]]
  - [[The D-channel is returned to service.]]]]]
  - [[Request the far end to set a loopback point for the circuit and remove the loopback point after the test is completed.]]
  - [[The cont command is not allowed on the IP PRI.]]]]]

**cont** (continued)

---

**[[Syntax]**

[[The cont command syntax is as follows:]]

```
[cont <CONT TYPE> {INT,
 EXT}
 [<D-CH IDENTIFICATION> {D1,
 D2}]]]
```

[The cont command is blocked if the IP option is provisioned in table TRKGRP for a PRI trunk.]

[[The following table describes the parameters and variables of the cont command.]]]

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                                                                                                                                                                                                                                                    |
|--------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INT                      | N/A   | This parameter runs an internal continuity test. All calls associated with the posted D-channel are dropped, the D-channel is removed from service, a loopback point is set, and the test is performed. After testing, the loopback point is removed and the D-channel is returned to service. |
| EXT                      | N/A   | This parameter runs an external continuity test. The effect on calls and the D-channel is the same as for an internal continuity test.                                                                                                                                                         |
| D1                       | N/A   | This parameter selects the primary D-channel for a continuity test.                                                                                                                                                                                                                            |
| D2                       | N/A   | This parameter selects the secondary D-channel for a continuity test.                                                                                                                                                                                                                          |

**[[Example]**

[Not currently available.]]

**[[Responses]**

[[The following table explains possible responses to the cont command.]]]]

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                 |                                  |
|-----------------|----------------------------------|
| [Command:]      | >[cont]                          |
| [MAP response:] | [CARRIER FAIL: REQUEST REJECTED] |

**cont** (end)**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                        |                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Meaning:]</b>      | You attempted a continuity test on the posted D-channel, but the associated carrier is out of service.                                        |
| <b>[Actions:]</b>      | None                                                                                                                                          |
| <b>[Command:]</b>      | > <b>[cont]</b>                                                                                                                               |
| <b>[MAP response:]</b> | [PM DOWN: REQUEST REJECTED]                                                                                                                   |
| <b>[Meaning:]</b>      | You attempted a continuity test on the posted D-channel, but its integrated services digital network digital trunk controller (DTCI) is down. |
| <b>[Actions:]</b>      | None                                                                                                                                          |
| <b>[Command:]</b>      | > <b>[cont]</b>                                                                                                                               |
| <b>[MAP response:]</b> | [[REQUEST INVALID - D CHANNEL IS NOT MANB]                                                                                                    |
| <b>[Meaning:]</b>      | Since the posted D-channel is not in the manual busy (ManB) state, the continuity test was not applied.                                       |
| <b>[Actions:]</b>      | Return the D-channel to the in service (INS) state, then manually busy the channel before requesting the continuity test to be performed.     |
| <b>[Command:]</b>      | > <b>[cont]</b>                                                                                                                               |
| <b>[MAP response:]</b> | [REQUEST INVALID - POSTED CIRCUIT IS NOT A D CHANNEL]                                                                                         |
| <b>[Meaning:]</b>      | The continuity test was not applied because the posted circuit is not a D-channel.                                                            |
| <b>[Actions:]</b>      | None                                                                                                                                          |

## equip

---

### Type

The equip command is a menu listed command.

### Target

The command target for the equip command is ALL.

### Description

Use the equip command to reserve a basic rate interface (BRI) integrated services digital rework (ISDN) line card or two DS-0 channels for use in digital test access (DTA) monitoring.

This command allows a user to reserve DTA test equipment to a primary rate interface (PRI) D-channel. The equip command is not allowed on the Internet protocol (IP) PRI, because while the interface between the XMS-based peripheral module (XPM) and gateway node appears to be a PRI, the messaging protocol is not strict Q.931 (at layer 2).

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA012

Feature 59010280 introduced option IP for PRI.

### Limitations and restrictions

The following limitations and restrictions apply to the equip command:

- The resources reserved for DTA cannot be used for any other purposes until the resources are released.
- The BRI ISDN line card must reside on either an LCME or LCMI and must be datafilled as HASU in table LNINV and have a line status of installation busy (INB).
- The DS-0 channels must be provisioned for 64k kBit/s clear transmission and must reside on one of the following peripheral types:
  - DTCT
  - LTC
  - LGC

**equip** (continued)

- DTC
- RCC2
- The equip command is blocked if the IP option is provisioned in table TRKGRP for a PRI trunk.

**Syntax**

The equip command syntax is as follows:

```
equip <equipment> {CARRIER <xpm> {DTCI} <xpmno> {0 TO 511}
 <port> {0 TO 19}
 <upchn1> {1 TO 24}
 <downchn1> {1 TO 24}},
 LTC <xpmno> {0 TO 511}
 <port> {0 TO 19}
 <upchn1> {1 TO 24}
 <downchn1> {1 TO 24}},
 DTC <xpmno> {0 TO 511}
 <port> {0 TO 19}
 <upchn1> {1 TO 24}
 <downchn1> {1 TO 24}},
 LGC <xpmno> {0 TO 511}
 <port> {0 TO 19}
 <upchn1> {1 TO 24}
 <downchn1> {1 TO 24}},
 RCC2 <xpmno> {0 TO 511}
 <port> {0 TO 47}
 <upchn1> {1 TO 24}
 <downchn1> {1 TO 24}},
 SMU <xpmno> {0 TO 511}
 <port> {0 TO 47}
 <upchn1> {1 TO 24}
 <downchn1> {1 TO 24}},
 PDTC <xpmno> {0 TO 511}
 <port> {0 TO 15}
 <downchn1> {1 TO 31}},
 LEN [<SITE> STRING]
 <frame> {0 TO 511}
 <unit> {0 TO 9}
 <DRAWER> {0 TO 99}
 <CIRCUIT> {0 TO 99}
 QUERY [<all> {ALL}],
 RESET <equipno> {1 TO 20}}
```



**equip** (continued)

---

The following table describes the parameters and variables of the equip command.

**Command parameter and variable descriptions (Sheet 1 of 3)**

| Parameters and variables | Value                                                                       | Description                                                                    |
|--------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| equipment                | N/A                                                                         | line card type                                                                 |
| CARRIER                  | xmp                                                                         | A company that provides communications circuits.                               |
| DTCI                     | xpmno 0 to 511,<br>port 0 to 19,<br>upchn1 1 to 24, and<br>downchn1 1 to 24 | digital truck controller/ISDN                                                  |
| LTC                      | xpmno 0 to 511,<br>port 0 to 19,<br>upchn1 1 to 24, and<br>downchn1 1 to 24 | line trunk controller                                                          |
| DTC                      | xpmno 0 to 511,<br>port 0 to 19,<br>upchn1 1 to 24, and<br>downchn1 1 to 24 | digital trunk controller                                                       |
| LGC                      | xpmno 0 to 511,<br>port 0 to 19,<br>upchn1 1 to 24, and<br>downchn1 1 to 24 | line group controller                                                          |
| RCC2                     | xpmno 0 to 511,<br>port 0 to 19,<br>upchn1 1 to 24, and<br>downchn1 1 to 24 | remote cluster controller 2                                                    |
| SMU                      | xpmno 0 to 511,<br>port 0 to 19,<br>upchn1 1 to 24, and<br>downchn1 1 to 24 | subscriber carrier module unit                                                 |
| PDTC                     | xpmno 0 to 511,<br>port 0 to 19,<br>upchn1 1 to 24, and<br>downchn1 1 to 24 | PCM30 digital trunk controllers                                                |
| LEN                      | SITE, STRING<br>frame and unit                                              | This parameter specifies the LEN that is reserved as DTA monitoring equipment. |

**equip** (continued)**Command parameter and variable descriptions (Sheet 2 of 3)**

| Parameters and variables | Value           | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DRAWER                   | 0 to 31         | This variable specifies the LCM drawer number. The range is 0 to 31.                                                                                                                                                                                                                                                                                                                        |
| CIRCUIT                  | 0 to 99         | This variable specifies the LCM circuit number. The range is 0 to 99.                                                                                                                                                                                                                                                                                                                       |
| QUERY                    | all and ALL     | The parameter provides information on DTA equipment currently reserved or connected.                                                                                                                                                                                                                                                                                                        |
| RESET                    | equipno 1 to 20 | This parameter releases monitoring equipment that was previously reserved.                                                                                                                                                                                                                                                                                                                  |
| xmp                      | N/A             | <p>This variable defines the type of node on which the DS1 resides. Valid entries include the following:</p> <ul style="list-style-type: none"> <li>• dtci xpmno prot</li> <li>• ltc xpmno port</li> <li>• dt xpmno portc</li> <li>• lgc xpmno port</li> <li>• rcc2 xpmno port</li> <li>• xpmno is number in the range 0 to 511</li> <li>• port is a number om the range 0 to 47</li> </ul> |
| xpmno                    | 0 to 511        | This variable specifies the peripheral module number. The range is 0 to 511.                                                                                                                                                                                                                                                                                                                |
| port                     | 0 to 47         | This variable specifies the XPM pside port to which the test equipment is attached. For standard XPM's, the range is 0 to 19. For RCC2, the range is 0 to 47.                                                                                                                                                                                                                               |
| upchn1                   | 1 to 24         | This variable specifies the timeslot on the trunk that carries the upstream data. The range is 1 to 24.                                                                                                                                                                                                                                                                                     |
| downchn1                 | 1 to 31         | This variable specifies the timeslot on the trunk that carries the downstream data. The range is 1 to 31.                                                                                                                                                                                                                                                                                   |
| SITE                     | text string     | This variable specifies the LCM name.                                                                                                                                                                                                                                                                                                                                                       |
| frame                    | 0 to 511        | This variable specifies the LCM frame number. The range is 0 to 511.                                                                                                                                                                                                                                                                                                                        |

**equip** (continued)**Command parameter and variable descriptions (Sheet 3 of 3)**

| Parameters and variables | Value   | Description                                                                                                              |
|--------------------------|---------|--------------------------------------------------------------------------------------------------------------------------|
| unit                     | 0 to 9  | This variable specifies the LCM unit number. The range is 0 to 9.                                                        |
| all                      | ALL     | This parameter specifies that all DTA connections are to be queried regardless of what their state is (optional).        |
| ALL                      |         |                                                                                                                          |
| equipno                  | 1 to 20 | This variable specifies the number returned when the monitoring equipment was originally reserved. The range is 1 to 20. |

**Example**

The following table provides an example of the equip command.

**Command example**

|                             |                                                                                                                                     |    |    |         |      |      |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----|----|---------|------|------|
| <b>Command:</b>             | <b>&gt;equip query</b>                                                                                                              |    |    |         |      |      |
| <b>Description of task:</b> | Query for information about equipment that is already reserved or connected.                                                        |    |    |         |      |      |
| <b>MAP response:</b>        | MTR EQUIP                                                                                                                           | US | DS | CONNECT | CHNL | STAT |
|                             | 1 LTC 4 15                                                                                                                          | 5  | 6  |         |      |      |
| <b>Explanation:</b>         | LTC 4 port 15 channel 5 is reserved as an upstream DTA monitor and LTC 4 port 15 channel 6 is reserved as a downstream DTA monitor. |    |    |         |      |      |

**Responses**

The following table provides responses to the equip command.

**MAP responses with associated meanings and actions (Sheet 1 of 14) (Sheet 1 of 14)**

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;equip</b>                                                                  |
| <b>MAP response:</b> | COMMAND IS NOT APPROPRIATE FOR RCU LINE                                           |
| <b>Meaning:</b>      | The system cannot perform the equip command for a remote carrier unit (RCU) line. |
| <b>Actions:</b>      | None                                                                              |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                  |

**equip** (continued)**MAP responses with associated meanings and actions (Sheet 2 of 14) (Sheet 2 of 14)**

|                      |                                                                                                                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | COULD NOT ALLOCATE A MAILBOX                                                                                                                                                                                                                                           |
| <b>Meaning:</b>      | A system fault is preventing the planned action from taking place.                                                                                                                                                                                                     |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                   |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | EQUIPMENT FOR MON RX RELEASED                                                                                                                                                                                                                                          |
| <b>Meaning:</b>      | The equip command and the mtr rx rls parameters were invoked, causing the previously seized monitor equipment to be released. If the central message controller(CMC) is remote from the data unit (DU) under test, the digital trunk for the receive path is released. |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                   |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | EQUIPMENT FOR MON TX RELEASED                                                                                                                                                                                                                                          |
| <b>Meaning:</b>      | The equip command and the mtr tx rls parameters were invoked, causing the previously seized monitor equipment to be released. If the CMC is remote from the DU under test, the digital trunk for the transmit path is released.                                        |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                   |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | EQUIPMENT FOR TEST LINE RELEASED                                                                                                                                                                                                                                       |
| <b>Meaning:</b>      | The equip command and the test rls parameters were invoked, causing the previously seized test equipment to be released. If the CMC is remote from the DU under test, the digital trunk is released.                                                                   |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                   |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | INVALID CHARACTER                                                                                                                                                                                                                                                      |
| <b>Meaning:</b>      | The equip command and the mtr tx d dn, or mtr rx d dn, or test d dn parameters were invoked using a letter instead of a number in one or more of the DN character positions.                                                                                           |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                   |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | INVALID CLLI                                                                                                                                                                                                                                                           |

**equip** (continued)**MAP responses with associated meanings and actions (Sheet 3 of 14) (Sheet 3 of 14)**

|                      |                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The equip command and any of the following parameter strings were invoked at the switch that contains the DU that is under test, when the common language location identifier CLLI of the specified trunk group is not valid in that switch: <ul style="list-style-type: none"> <li>• mtr tx c clli dn</li> <li>• mtr rx c clli dn</li> <li>• test c clli dn</li> </ul> |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                                                                                                                          |
| <b>MAP response:</b> | INVALID DIRECTORY NUMBER                                                                                                                                                                                                                                                                                                                                                |
| <b>Meaning:</b>      | The equip command and the mtr tx d dn, mtr rx d dn or test d dn parameters were invoked using a DN that does not exist in this office.                                                                                                                                                                                                                                  |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                                                                                                                          |
| <b>MAP response:</b> | INVALID OFFICE CODE                                                                                                                                                                                                                                                                                                                                                     |
| <b>Meaning:</b>      | The equip command and the mtr tx d dn, mtr rx d dn, or test d dn parameters were invoked using an office code that does not exist in this office.                                                                                                                                                                                                                       |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                                                                                                                          |
| <b>MAP response:</b> | MON RX ALREADY SEIZED                                                                                                                                                                                                                                                                                                                                                   |
| <b>Meaning:</b>      | The equip command and the previous or mtr previous parameters were invoked when the receive direction monitor is currently seized.                                                                                                                                                                                                                                      |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Command:</b>      | > <b>equip</b>                                                                                                                                                                                                                                                                                                                                                          |
| <b>MAP response:</b> | MON RX clli IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST                                                                                                                                                                                                                                                                                              |
| <b>Meaning:</b>      | The equip command was invoked with the mtr rx c clli dn or mtr rx rls parameters when the receive direction monitor equipment is currently connected to the DN that is displayed in the response.                                                                                                                                                                       |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                    |

**equip** (continued)**MAP responses with associated meanings and actions (Sheet 4 of 14) (Sheet 4 of 14)**

|                      |                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | MON RX dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST                                                                                                                                                                                                                          |
| <b>Meaning:</b>      | The equip command was invoked with the mtr rx d dn or mtr rx rls parameters, when the monitor for the receive path is currently connected to the DN that is displayed in the response.                                                                                                            |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                              |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | MON RX EQUIPMENT NOT SPECIFIED                                                                                                                                                                                                                                                                    |
| <b>Meaning:</b>      | The equip command and the mtr previous parameters were invoked after the receive direction monitor equipment has been subjected to the equip command and the reset parameter, or the monitor equipment is not seized.                                                                             |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                              |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | MON RX EQUIPMENT SEIZED                                                                                                                                                                                                                                                                           |
| <b>Meaning:</b>      | The equip command and the mtr rx d dn parameters were invoked, causing the receive direction monitor to be seized. This response is also displayed when the equip command and the mtr previous parameters were invoked, causing a released receive direction monitor to be reseized.              |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                              |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | MON RX UNABLE TO SEIZE LINE                                                                                                                                                                                                                                                                       |
| <b>Meaning:</b>      | When the equip command and the mtr rx parameter were invoked, a system fault prevented the receive direction monitor equipment from being seized.                                                                                                                                                 |
| <b>Actions:</b>      | The first or both of the following actions is required: <ul style="list-style-type: none"> <li>• If the line is in the IDL state, contact the support group to determine the required maintenance action.</li> <li>• Post the monitor line by DN and verify the IDL state of the line.</li> </ul> |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | MON TX ALREADY SEIZED                                                                                                                                                                                                                                                                             |

**equip** (continued)

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**MAP responses with associated meanings and actions (Sheet 5 of 14) (Sheet 5 of 14)**

|                      |                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The equip command was invoked with the mtr previous or previous parameter when the transmit direction monitor is currently seized.                                                                   |
| <b>Actions:</b>      | None                                                                                                                                                                                                 |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                     |
| <b>MAP response:</b> | MON TX clli IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST                                                                                                                           |
| <b>Meaning:</b>      | The equip command was invoked with the mtr tx c clli dn or mtr tx rls parameters , when the transmit direction monitor equipment is currently connected to the DN that is displayed in the response. |
| <b>Actions:</b>      | None                                                                                                                                                                                                 |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                     |
| <b>MAP response:</b> | MON TX dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST                                                                                                                             |
| <b>Meaning:</b>      | The equip command was invoked with the mtr tx d dn or mtr tx rls parameters when the transmit direction monitor equipment is currently connected to the DN that is displayed in the response.        |
| <b>Actions:</b>      | None                                                                                                                                                                                                 |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                     |

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**equip** (continued)

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**MAP responses with associated meanings and actions (Sheet 6 of 14) (Sheet 6 of 14)**

|               |                                                                                                          |
|---------------|----------------------------------------------------------------------------------------------------------|
| MAP response: | MON TX dn IS ALREADY CONNECTED TO dn RELEASE THE CONNECTION FIRST                                        |
|               | or                                                                                                       |
|               | EQUIPMENT FOR MON TX RELEASED                                                                            |
|               | or                                                                                                       |
|               | no MON TX text is displayed and MON RX dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST |
|               | or                                                                                                       |
|               | EQUIPMENT FOR MON RX RELEASED                                                                            |
|               | or                                                                                                       |
|               | no MON RX text is displayed and TEST dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST   |
|               | or                                                                                                       |
|               | EQUIPMENT FOR TEST RELEASED                                                                              |
|               | or                                                                                                       |
|               | no TEST text is displayed                                                                                |
|               | and                                                                                                      |
|               | DN dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST                                     |
|               | or                                                                                                       |
|               | EQUIPMENT FOR DN IS RELEASED                                                                             |
|               | or                                                                                                       |
|               | no DN text is displayed                                                                                  |



**equip** (continued)

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**MAP responses with associated meanings and actions (Sheet 7 of 14) (Sheet 7 of 14)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The equip command and the rls parameter were invoked, causing all seized test and monitor equipment that is not connected to a data line to be released. If any equipment is connected to a data line the DN of that data line is displayed. There is no text displayed for equipment that is not seized.                                                                                                                                           |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MAP response:</b> | <p>MON TX dn IS CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST</p> <p>or</p> <p>EQUIPMENT FOR MON TX RELEASED</p> <p>or</p> <p>no MON TX text is displayed</p> <p>and</p> <p>MON RX dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST</p> <p>or</p> <p>EQUIPMENT FOR MON RX RELEASED</p> <p>or</p> <p>no MON RX text is displayed</p> <p>and</p> <p>TEST dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST</p> |

**equip** (continued)**MAP responses with associated meanings and actions (Sheet 8 of 14) (Sheet 8 of 14)**

|                      |                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <p>or</p> <p>EQUIPMENT FOR TEST RELEASED</p> <p>or</p> <p>no TEST text is displayed</p> <p>and</p> <p>DN dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST</p> <p>or</p> <p>EQUIPMENT FOR DN IS RELEASED</p> <p>or</p> <p>no DN text is displayed EQUIPMENT RELEASED</p>                                                            |
| <b>Meaning:</b>      | The equip command and the reset parameter were invoked, causing all seized test and monitor equipment that is not connected to a data line to be released beyond retrieval by any previous parameter. If any equipment is connected to a data line, the DN of that data line is displayed. The command is ignored for equipment that is not seized. |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                    |
| <b>MAP response:</b> | MON TX EQUIPMENT NOT SPECIFIED                                                                                                                                                                                                                                                                                                                      |
| <b>Meaning:</b>      | The equip command and the mts previous parameters were invoked when the transmit direction monitor equipment has been subjected to the equip command and the reset parameter, or the monitor equipment is not seized.                                                                                                                               |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                    |
| <b>MAP response:</b> | MON TX EQUIPMENT SEIZED                                                                                                                                                                                                                                                                                                                             |
| <b>Meaning:</b>      | The equip command and the mtr tx d dn parameters were invoked, causing the transmit direction monitor equipment to be seized. This response is also displayed when the equip command and the mtr previous parameters are invoked, causing a released transmit direction monitor to be resealed.                                                     |

**equip** (continued)

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**MAP responses with associated meanings and actions (Sheet 9 of 14) (Sheet 9 of 14)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | >equip                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | MON TX UNABLE TO SEIZE LINE                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Meaning:</b>      | When the equip command and the mtr tx parameters were invoked, a system fault prevented the monitor equipment from being seized.                                                                                                                                                                                                                                                               |
| <b>Actions:</b>      | The first or both of the following actions is required: <ul style="list-style-type: none"><li>• Post the monitor line by DN and verify the IDL state of the line.</li><li>• If the line is in the IDL state, contact the support group to determine the required maintenance action</li></ul>                                                                                                  |
| <b>Command:</b>      | >equip                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | NO DU EQUIPMENT HAS BEEN EQUIPPED IN THIS OFFICE                                                                                                                                                                                                                                                                                                                                               |
| <b>Meaning:</b>      | The equip command and the string query all parameter were invoked when no test or monitor equipment has been previously seized at any MAP of that switch, or after the equip command and the reset parameter has been invoked.                                                                                                                                                                 |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | >equip                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | NO EQUIPMENT FOR MON RX SEIZED                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Meaning:</b>      | The equip command and the mtr rls or mtr rx rls parameters are invoked when one of the following conditions exists: <ul style="list-style-type: none"><li>• The receive direction monitor equipment is not currently seized.</li><li>• The previous command and parameter string is equip mtr rx c cli dn.</li><li>• The previous command and parameter string is equip mtr rx d dn.</li></ul> |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | >equip                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | NO EQUIPMENT FOR MON TX SEIZED                                                                                                                                                                                                                                                                                                                                                                 |

**equip** (continued)**MAP responses with associated meanings and actions (Sheet 10 of 14) (Sheet 10 of 14)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The equip command and the mtr rls or mtr tx rls are invoked when one of the following conditions exists: <ul style="list-style-type: none"> <li>• The transmit direction monitor equipment is not currently seized.</li> <li>• The previous command and parameter string is equip mtr tx c cli dn.</li> <li>• The previous command and parameter string is equip mtr tx d dn.</li> </ul> |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | PRIVILEGED COMMAND                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Meaning:</b>      | The equip command was invoked by a user that is not authorized for data activity.                                                                                                                                                                                                                                                                                                        |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | TEST cli IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST                                                                                                                                                                                                                                                                                                                  |
| <b>Meaning:</b>      | The equip command was invoked with the test c cli dn or test rls parameters when the test equipment is currently connected to the DN that is displayed in the response.                                                                                                                                                                                                                  |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | TEST dn IS ALREADY CONNECTED TO dn PLEASE RELEASE THE CONNECTION FIRST                                                                                                                                                                                                                                                                                                                   |
| <b>Meaning:</b>      | The equip command was invoked with the test d dn or test rls parameters when the test line is currently connected to the DN that is displayed in the response.                                                                                                                                                                                                                           |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | TEST EQUIPMENT SEIZED                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Meaning:</b>      | The equip command and the test d dn or test previous parameters were invoked, causing a test line to be seized.                                                                                                                                                                                                                                                                          |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                     |

**equip** (continued)

---

**MAP responses with associated meanings and actions (Sheet 11 of 14) (Sheet 11 of 14)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                               |
| <b>MAP response:</b> | TEST ALREADY SEIZED                                                                                                                                                                                                                                                                                                                                                            |
| <b>Meaning:</b>      | The equip command and the test previous or previous parameter were invoked when a test line is currently seized.                                                                                                                                                                                                                                                               |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                               |
| <b>MAP response:</b> | TEST EQUIPMENT NOT SPECIFIED                                                                                                                                                                                                                                                                                                                                                   |
| <b>Meaning:</b>      | The equip command and the test previous parameters were invoked on a test line when the equip command and the reset parameter has been invoked previously or when the test line is not seized.                                                                                                                                                                                 |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                               |
| <b>MAP response:</b> | TEST LINE UNABLE TO SEIZE LINE                                                                                                                                                                                                                                                                                                                                                 |
| <b>Meaning:</b>      | When the equip command and the test d dn parameters were invoked, a system fault prevented the test equipment from being seized.                                                                                                                                                                                                                                               |
| <b>Actions:</b>      | The first or both of the following actions is required: <ul style="list-style-type: none"><li>• Post the test line by DN and verify that the line is in the IDL state.</li><li>• If the line is in the IDL state, contact the support group to determine the required maintenance action.</li></ul>                                                                            |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                               |
| <b>MAP response:</b> | TRUNK FOR MON RX NOT SEIZED                                                                                                                                                                                                                                                                                                                                                    |
| <b>Meaning:</b>      | When the equip command and the mtr rx c cli dn parameter were invoked at the switch that contains the DU that is under test, seizure of a digital trunk to the CMC switch failed for one of the following reasons: <ul style="list-style-type: none"><li>• There are no idle trunks in the trunk group</li><li>• A system fault prevented a trunk from being seized.</li></ul> |

**equip** (continued)**MAP responses with associated meanings and actions (Sheet 12 of 14) (Sheet 12 of 14)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Actions:</b>      | The following sequence of steps is required: <ul style="list-style-type: none"> <li>• Verify that there is an idle trunk in the trunk group.</li> <li>• Contact the support group to determine the required maintenance action.</li> </ul>                                                                                                                                        |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | TRUNK FOR MON TX NOT SEIZED                                                                                                                                                                                                                                                                                                                                                       |
| <b>Meaning:</b>      | When the equip command and the mtr tx c cli dn parameter were invoked at the switch that contains the DU that is under test, seizure of a digital trunk to the CMC switch failed for one of the following reasons: <ul style="list-style-type: none"> <li>• There are no idle trunks in the trunk group.</li> <li>• A system fault prevented a trunk from being seized</li> </ul> |
| <b>Actions:</b>      | The following sequence of steps is required: <ul style="list-style-type: none"> <li>• Verify that there is an idle trunk in the trunk group.</li> <li>• Contact the support group to determine the required maintenance action.</li> </ul>                                                                                                                                        |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | TRUNK FOR MON RX SEIZED                                                                                                                                                                                                                                                                                                                                                           |
| <b>Meaning:</b>      | The equip command and the mtr rx c cli parameter were invoked at the switch that contains the DU that is under test, causing a digital trunk to the CMC switch to be seized.                                                                                                                                                                                                      |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | TRUNK FOR MON TX SEIZED                                                                                                                                                                                                                                                                                                                                                           |
| <b>Meaning:</b>      | The equip command and the mtr rx c cli parameter were invoked at the switch that contains the DU that is under test, causing a digital trunk to the CMC switch to be seized.                                                                                                                                                                                                      |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | TRUNK FOR TEST NOT SEIZED                                                                                                                                                                                                                                                                                                                                                         |

**equip** (continued)**MAP responses with associated meanings and actions (Sheet 13 of 14) (Sheet 13 of 14)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | When the equip command and the string test c cli dn parameter were invoked at the switch that contains the DU that is under test, seizure for a digital trunk to the CMC switch failed for one of the following reasons: <ul style="list-style-type: none"> <li>• There are no idle trunks in the trunk group.</li> <li>• A system fault prevented a trunk from being seized.</li> </ul> |
| <b>Actions:</b>      | The following sequence of steps is required: <ul style="list-style-type: none"> <li>• Verify that there is an idle trunk in the trunk group.</li> <li>• Contact the support group to determine the require maintenanceaction.</li> </ul>                                                                                                                                                 |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | TRUNK FOR TEST SEIZED                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Meaning:</b>      | The equip command and the test c cli parameter were invoked at the switch that contains the DU that is under test, causing a digital trunk to the CMC switch to be seized.                                                                                                                                                                                                               |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | TRUNK IS NOT TWO-WAY, PLEASE SELECT ANOTHER AND RE-ISSUE THE COMMAND                                                                                                                                                                                                                                                                                                                     |
| <b>Meaning:</b>      | When the equip command and the test c cli dn parameter were invoked at the switch that contains the DU that is under test, a CLLI for a one-way trunk group was specified rather than a CLLI for a two-way trunk group.                                                                                                                                                                  |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | TRUNK MUST BE EITHER DP OR MF                                                                                                                                                                                                                                                                                                                                                            |
| <b>Meaning:</b>      | The command equip and any of the following parameters were invoked at the switch that contains the DU that is under test, when the trunk group that was specified by the CLLI is neither a DP type nor a MF type: <ul style="list-style-type: none"> <li>• mtr tx c cli dn</li> <li>• mtr rx c cli dn</li> <li>• test c cli dn</li> </ul>                                                |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Command:</b>      | <b>&gt;equip</b>                                                                                                                                                                                                                                                                                                                                                                         |

---

**equip** (end)

---

**MAP responses with associated meanings and actions (Sheet 14 of 14) (Sheet 14 of 14)**

|                      |                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | WRONG NUMBER OF DIGITS                                                                                                                                                                               |
| <b>Meaning:</b>      | The equip command was invoked with the mtr rx d dn mtr tx d dn mtr tx d dn or test d dn parameter when the dn parameter contained more or less than seven digits.                                    |
| <b>Actions:</b>      | None                                                                                                                                                                                                 |
| <b>Command:</b>      | >equip                                                                                                                                                                                               |
| <b>MAP response:</b> | YOU HAVE NO DU EQUIPMENT EQUIPPED                                                                                                                                                                    |
| <b>Meaning:</b>      | The equip command and the query parameter were invoked when no test or monitor equipment has been previously seized at the MAP, or after the equip command and the parameter reset has been invoked. |
| <b>Actions:</b>      | None                                                                                                                                                                                                 |



## loopbk

---

### Type

The loopbk command is a menu listed command.

### Target

The command target for the loopbk command is ALL.

### Description

The loopbk command allows the setting, removing, and checking status of loopback points set up for a far end office doing a continuity test. Since the continuity command is being blocked for internet protocol (IP) primary rate interface (PRI) trunks, so is the loopback command.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA012

Feature 59010280 introduced option IP for PRI.

### Limitations and restrictions

The following limitations and restrictions apply to the loopbk command:

- When a trunk is set by the loopback command, maintenance commands to change the state of the trunk cannot be performed. If a maintenance command is entered after a trunk is set by the loopback command, an error message appears informing the user that the maintenance command is not allowed and that a loopback is set.
- The trunk cannot be returned to service (RTS) until the loopback is removed.
- A loopback can be set only if there are no calls on the trunk.
- A loopback cannot be set if the trunk state is call processing busy (CPB). An error message will be returned in this instance.
- The loopback point is required for performing an internal continuity test from the DMS-100 switch or an external continuity test from the far end.

**loopbk** (continued)**Syntax**

The loopbk command syntax is as follows:

```
loopbk [<LPBK ACT> {SET,
 REMOVE,
 QUERY}]
 [<D-CHIDENTIFICATION> {D1,
 D2}]
```

The loopbk command is blocked if the IP option is provisioned in table TRKGRP for a PRI trunk.

The following table describes the parameters and variables of the loopbk command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                              |
|--------------------------|-------|--------------------------------------------------------------------------|
| SET                      | N/A   | This parameter sets a loopback point for the currently posted D-channel. |
| REMOVE                   | N/A   | This parameter removes the loopback point set previously.                |
| QUERY                    | N/A   | This parameter checks the current status of the loopback point.          |
| D1                       | N/A   | This parameter selects the primary D-channel.                            |
| D2                       | N/A   | This parameter selects the secondary D-channel.                          |

**Example**

Not currently available.

**Responses**

The following table explains possible responses to the loopbk command.

**MAP responses with associated meanings and actions (Sheet 1 of 3)**

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| <b>Command:</b>      | >loopbk                                                                       |
| <b>MAP response:</b> | CARRIER FAIL: REQUEST REJECTED                                                |
| <b>Meaning:</b>      | You attempted to alter the state of a loopback point on the posted D-channel. |

**loopbk** (continued)

---

**MAP responses with associated meanings and actions (Sheet 2 of 3)**

|                      |                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Actions:</b>      | None                                                                                                                        |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                           |
| <b>MAP response:</b> | D CHANNEL LOOPBACK POINT SET PASSED. LOOPBACK POINT ESTABLISHED.                                                            |
| <b>Meaning:</b>      | The command string loopbk set was successful.                                                                               |
| <b>Actions:</b>      | None                                                                                                                        |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                           |
| <b>MAP response:</b> | FAILED, NO CIRCUIT POSTED                                                                                                   |
| <b>Meaning:</b>      | The command failed because no circuit was posted.                                                                           |
| <b>Action:</b>       | None                                                                                                                        |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                           |
| <b>MAP response:</b> | Loopback already set                                                                                                        |
| <b>Meaning:</b>      | A loopback has already been set on the trunk.                                                                               |
| <b>Actions:</b>      | None                                                                                                                        |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                           |
| <b>MAP response:</b> | Loopback is NOT set                                                                                                         |
| <b>Meaning:</b>      | The query parameter has been entered and the system responds that a loopback has not been set on the posted trunk.          |
| <b>Actions:</b>      | None                                                                                                                        |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                           |
| <b>MAP response:</b> | Loopback is set                                                                                                             |
| <b>Meaning:</b>      | The query parameter has been entered and the system responds that a loopback has been successfully set on the posted trunk. |
| <b>Actions:</b>      | None                                                                                                                        |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                           |
| <b>MAP response:</b> | Loopback removed                                                                                                            |

**loopbk (end)****MAP responses with associated meanings and actions (Sheet 3 of 3)**

|                      |                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The loopback has been successfully removed from the posted trunk. The trunk can now be returned to service.                                                        |
| <b>Actions:</b>      | None                                                                                                                                                               |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                                                                  |
| <b>MAP response:</b> | Loopback set                                                                                                                                                       |
| <b>Meaning:</b>      | A loopback has been successfully set on the posted trunk.                                                                                                          |
| <b>Actions:</b>      | None                                                                                                                                                               |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                                                                  |
| <b>MAP response:</b> | PM DOWN: REQUEST REJECTED                                                                                                                                          |
| <b>Meaning:</b>      | You attempted to alter the state of a loopback point on the posted D-channel, but its integrated services digital network digital trunk controller (DTCI) is down. |
| <b>Actions:</b>      | None                                                                                                                                                               |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                                                                  |
| <b>MAP response:</b> | REQUEST INVALID - D CHANNEL IS NOT MANB                                                                                                                            |
| <b>Meaning:</b>      | The loopback point was not set because the posted D-channel is not in the ManB state.                                                                              |
| <b>Actions:</b>      | Return the D-channel to the INS state, then manually busy the channel before requesting the loopback point to be set.                                              |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                                                                  |
| <b>MAP response:</b> | REQUEST INVALID - POSTED CIRCUIT IS NOT A D CHANNEL                                                                                                                |
| <b>Meaning:</b>      | The loopback command was unsuccessful because the circuit posted is not a D-channel.                                                                               |
| <b>Actions:</b>      | None                                                                                                                                                               |
| <b>Command:</b>      | <b>&gt;loopbk</b>                                                                                                                                                  |
| <b>MAP response:</b> | There is no loopback to remove                                                                                                                                     |
| <b>Meaning:</b>      | A loopback cannot be removed because no trunk is looped.                                                                                                           |
| <b>Actions:</b>      | None                                                                                                                                                               |

## qryabn

---

### Type

The qryabn command is a nonmenu command.

### Target

The command target for the qryabn command is SuperNode and BRISC.

### Description

QRYABN is provided at the PRADCH MAP level (not visible in the menu area) to query the layer 2 and layer 3 abnormality counts for the NTNI primary role interface (PRI) D-channels. This command displays the 24-hour layer 2 and layer 3 abnormality counts in the active or holding registers for the posted D-channel.

Since the layer 2 protocol between xms-based peripheral module XPM and the gateway does not use standard ISDN layer 2 messaging, this command is blocked for Internet protocolIP PRIs.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA012

Feature 59010280 introduced option IP for PRI.

### Limitations and restrictions

The qryabn command has no limitation or restrictions.

### Syntax

The qryabn command syntax is as follows:

```
qryabn [<1st PARM> {D1,
 D2,
 BOTH,
 ACT,
 HOLD}]
 [<2nd PARM> {ACT,
 HOLD}]
```

**qryabn** (continued)

The following table describes the parameters and variables of the qryabn command.

**Command parameter and variable descriptions**

| Parameters and variables | Value                   | Description                                                                                                                                      |
|--------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| D1                       | D1, D2, Both, act, hold | Protocol Abnormality information pertaining to primary D-channel.<br><br>The default value for this option is Both.                              |
| D2                       |                         | Protocol Abnormality information pertaining to back-up D-channel.<br><br>The default value for this option is Both.                              |
| Both                     | act, hold               | Protocol Abnormality information pertaining to both D-channels.                                                                                  |
| act                      |                         | Protocol Abnormality for the posted channel(s) using active accumulating registers.                                                              |
| hold                     |                         | Protocol Abnormality information for the posted channel(s) using holding accumulating registers.                                                 |
| act                      |                         | Display the Protocol Abnormality information using the 24 hours active accumulating registers.<br><br>The default value for this option is act.  |
| hold                     |                         | Display the Protocol Abnormality information using the 24 hours holding accumulating registers.<br><br>The default value for this option is act. |

**Example**

Not currently available.

**Responses**

The following table explains possible responses to the qryabn command.

**MAP responses with associated meanings and actions (Sheet 1 of 2) (Sheet 1 of 2)**

|                      |                                       |
|----------------------|---------------------------------------|
| <b>Command:</b>      | <b>&gt;qyabn</b>                      |
| <b>MAP response:</b> | QRYABN is only valid for NTNI trunks. |

**qryabn** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2) (Sheet 2 of 2)**

|                      |                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The protocol variant of the posted D-channel is not NTNI.                                                                                           |
| <b>Actions:</b>      | None                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;qryabn help</b>                                                                                                                              |
| <b>MAP response:</b> | QRYABN QUERY LAYER 2 and 3 PROTOCOL ABNORMALITY COUNTS<br>Parms: [<1st PARM> {D1,<br>D2,<br>Both,<br>act,<br>hold}}<br>[<2nd PARM> {act,<br>hold}}] |
| <b>Meaning:</b>      | This response is generated when the help QRYABN command is issued.                                                                                  |
| <b>Actions:</b>      | None                                                                                                                                                |

There is no change to the qryabn command responses.

---

**qryperf**

---

**Type**

The qryperf command is a nonmenu command.

**Target**

The command target for the qryperf command is SuperNode and BRISC.

**Description**

QRYPERF is used to query the layer 2 transmission performance counts for NTNI summary rate interface (PRI) trunks. The command is executed from the PRADCH level of the MAP. The command displays the information to the operating company personnel at the MAP. The map displays the counts in the 24 hour active or holding counters along with the percentage of retransmissions and the percentage reception in error for the NTNI PRAD-channel posted at the PRADCH level. Since the layer 2 protocol between the xms-based peripeheral module (XPM) and the gateway does not use standard intergrated services digital network (ISDN) layer 2 messaging then this command is to be blocked for Internet protocol(IP) PRI interfaces.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA012**

Feature 59010280 introduced option IP for PRI.

**Limitations and restrictions**

The qryperf command has no limitation or restrictions.

**Syntax**

The qryperf command syntax is as follows:

```
qryperf [<1st PARM> {D1,
 D2,
 BOTH,
 ACT,
 HOLD}]
 [<2nd PARM> {ACT,
 HOLD}]
```



**qryperf** (continued)

The following table describes the parameters and variables of the qryperf command.

**Command parameter and variable descriptions**

| Parameters and variables | Value                   | Description                                                                                                                            |
|--------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| D1                       | D1, D2, Both, act, hold | Performance information pertaining to primary D-channel.<br><br>The default value for the option is Both.                              |
| D2                       |                         | Performance information pertaining to back-up D-channel.<br><br>The default value for the option is Both.                              |
| Both                     |                         | Performance information pertaining to both D-channels.                                                                                 |
| act                      | act, hold               | Performance information for the posted channel(s) using active accumulating registers.                                                 |
| hold                     |                         | Performance information for the posted channel(s) using holding accumulating registers.                                                |
| act                      |                         | Display the performance information using the 24-hour active accumulating registers.<br><br>The default value for this option is act.  |
| hold                     |                         | Display the performance information using the 24-hour holding accumulating registers.<br><br>The default value for this option is act. |

**Example**

Not currently available.

**Responses**

The following table explains possible responses to the qryperf command.

**MAP responses with associated meanings and actions (Sheet 1 of 2) (Sheet 1 of 2)**

|                      |                                        |
|----------------------|----------------------------------------|
| <b>Command:</b>      | <b>&gt;qryperf</b>                     |
| <b>MAP response:</b> | QRYPERF is only valid for NTNI trunks. |

---

**qryperf** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2) (Sheet 2 of 2)**

|                      |                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The protocol variant of the posted D-channel is not NTNI.                                                                                  |
| <b>Actions:</b>      | None                                                                                                                                       |
| <b>Command:</b>      | <b>&gt;qryperf help</b>                                                                                                                    |
| <b>MAP response:</b> | QRYPERF QUERY LAYER 2 TRANSMISSION PERFORMANCE<br>Parms: [<1st PARM> {D1,<br>D2,<br>Both,<br>act,<br>hold}]<br>[<2nd PARM> {act,<br>hold}] |
| <b>Meaning:</b>      | This response is generated when the help QRYPERF command is issued with valid NTNI PRA D-channel(s) already posted.                        |
| <b>Actions:</b>      | None                                                                                                                                       |

## rts

---

### Type

The rts command is a menu listed command.

### Target

The command target for the rts command is ALL.

### Description

Use the rts command to return the posted B-channel or D-channel to service. Tests are run, and if they are successful, the circuits are returned to service. The circuits must be in the manual busy (ManB) state before issuing this command.

This command allows a user to manually rts a b or d channel on a primary rate interface (PRI). This command is not available for PRI trunks that have new Internet protocol (IP) option provisioned in table TRKGRP. No manual maintenance is allowed on the IP PRI trunk members. The state of these channels tracks the state of the gateway node to which the trunks terminate.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA012

Feature 59010280 introduce option IP for PRI.

### Limitations and restrictions

The following limitation and restrictions apply to the rts command:

- The rts command does not affect trunks in call processing busy (CPB).
- The rts command at the MANUAL, MONITOR, and TTP levels will fail if the command is applied to a B-channel when its associated D-channel or DS-1 link is out of service.

### Syntax

The rts command syntax is as follows:

```
rts [<1st PARM> {ALL,
 A,
 D1,
 D2,
 FORCE}]
```

There is no change to the rts command syntax.

**rts** (continued)

The following table describes the parameters and variables of the rts command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                                                                                           |
|--------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------|
| ALL                      | N/A   | This parameter returns to service the channels in the post set that were previously Manually Busy (ManB) by group and command string. |
| A                        | N/A   |                                                                                                                                       |
| D1                       | N/A   | This parameter specifies the primary D-channel.                                                                                       |
| D2                       | N/A   | This parameter specifies the secondary D-channel.                                                                                     |
| FORCE                    | N/A   |                                                                                                                                       |

**Example**

The following table provides an example of the rts command.

**Command example**

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Command:</b>             | <b>&gt;rts</b>                    |
| <b>Description of task:</b> | Release the connection.           |
| <b>MAP response:</b>        | RTS OK                            |
| <b>Explanation:</b>         | The connection has been released. |

**Responses**

The following table explains possible responses to the rts command.

**MAP responses with associated meanings and actions (Sheet 1 of 3)**

|                      |                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;rts</b>                                                                                                  |
| <b>MAP response:</b> | ALREADY DONE                                                                                                    |
| <b>Meaning:</b>      | The circuit is already returned to service and an attempt has been made to return the circuit to service again. |
| <b>Actions:</b>      | None                                                                                                            |

**rts** (continued)

---

**MAP responses with associated meanings and actions (Sheet 2 of 3)**

|                      |                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | >rts                                                                                                                                                                         |
| <b>MAP response:</b> | FAILED, NO CIRCUIT                                                                                                                                                           |
| <b>Meaning:</b>      | There are no circuits to be returned to service.                                                                                                                             |
| <b>Actions:</b>      | None                                                                                                                                                                         |
| <b>Command:</b>      | >rts                                                                                                                                                                         |
| <b>MAP response:</b> | FAILED TO DO SO                                                                                                                                                              |
| <b>Meaning:</b>      | An attempt was made to return to service a circuit that was not in a ManB state for a B-channel and a ManB state for a D-channel.                                            |
| <b>Actions:</b>      | None                                                                                                                                                                         |
| <b>Command:</b>      | >rts                                                                                                                                                                         |
| <b>MAP response:</b> | FAILED: D CHANNEL IS DOWN                                                                                                                                                    |
| <b>Meaning:</b>      | The rts command failed after being applied to a B-channel because its associated D-channel or DS-1 link is out of service. The B-channel has been made idle.                 |
| <b>Actions:</b>      | None                                                                                                                                                                         |
| <b>Command:</b>      | >rts                                                                                                                                                                         |
| <b>MAP response:</b> | MAINTENANCE IN PROGRESS                                                                                                                                                      |
| <b>Meaning:</b>      | An attempt was made to return to service a posted circuit where maintenance is being performed.                                                                              |
| <b>Actions:</b>      | None                                                                                                                                                                         |
| <b>Command:</b>      | >rts                                                                                                                                                                         |
| <b>MAP response:</b> | NO LTID IS MAPPED IN TABLE LTMAP                                                                                                                                             |
| <b>Meaning:</b>      | An attempt was made to return to service a D-channel that has no logical terminal identifier (LTID) mapped to its common language location identifier (CLLI) in table LTMAP. |
| <b>Actions:</b>      | Add or correct the datafill.                                                                                                                                                 |
| <b>Command:</b>      | >rts                                                                                                                                                                         |
| <b>MAP response:</b> | RTS OK                                                                                                                                                                       |

**MAP responses with associated meanings and actions (Sheet 3 of 3)**

|                      |                                                                                                                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The circuit has been returned to service.                                                                                                                                                                                                        |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                             |
| <b>Command:</b>      | >rts                                                                                                                                                                                                                                             |
| <b>MAP response:</b> | SET IS EMPTY                                                                                                                                                                                                                                     |
| <b>Meaning:</b>      | There are no circuits to be returned to service.                                                                                                                                                                                                 |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                             |
| <b>Command:</b>      | >rts                                                                                                                                                                                                                                             |
| <b>MAP response:</b> | <p>*WARNING*</p> <p>TRUNK WAS TAKEN OUT OF SERVICE BY SYSTEM DUE TO EXCESSIVE CALL ERRORS.</p> <p>PLEASE CONTACT SUPPORT GROUP PRIOR TO RETURNING TRUNK TO SERVICE.</p> <p>DO YOU WANT TO RTS TRUNK?</p> <p>PLEASE CONFIRM ("YES" OR "NO") :</p> |
| <b>Meaning:</b>      | An attempt was made to return to service a trunk that was taken out of service by the system due to excessive call processing errors.                                                                                                            |
| <b>Actions:</b>      | Enter to return the specified trunk to service; otherwise, enter No. Additional maintenance action can be required to clear the fault prior to returning the trunk to service.                                                                   |



---

# 1 PROGDIR level commands

---

This chapter provides an overview of the PROGDIR level. This chapter also provides detailed information on new or changed commands in the PROGDIR level.

The following table alphabetically lists the commands available at the PROGDIR level.

| Command          |
|------------------|
| aintrace         |
| autodump         |
| dmsmon           |
| dninvci collapse |
| dninvci expand   |
| dump             |
| flextab          |
| poll             |
| pollschd         |
| ptp              |
| qpin             |
| traceci          |
| traver           |
| trnslvf          |
| tstquery         |



## **Description**

The PROGDIR contains the commands available from the basic CI level.

## **How to access the PROGDIR level**

No command increments are required to issue PROGDIR commands.

## **How to return to the CI**

You are at the CI.

>

## **MAP display**

There is no map display of the PROGDIR level.

---

## AINTRACE

---

### Type

The AINTRACE command is a nonmenu command.

### Target

The command target is BRISC.

### Description

AIN TCAP message tracing (AINTrac) is a single-user CI tool available through the maintenance and administrative position (MAP) terminal. It allows the user to display/view CCS& TCAP messages that are sent to or from SCP or ADJUNCT. It also enables selecting and tracing on Dynamic Packet Trunks (DPTs). AIN messages can be captured by selecting either the agent type or message type that is desired. The captured CCAP messages are stored in AINT Log and are then displayed in hexadecimal, text, or both formats.

### Limitations and restrictions

AINTRACE is a single user tool. Using the AINTRACE CI commands, TIDs are selected by specifying a directory number (DN), line equipment number (LEN), ID number (for basic rate interface sets) or trunk group name, member number and non call-related messages. Up to 40 selected TIDs can be added to the list. TIDs can be removed from the list. After selecting TIDs, set AINTRACE to start trace. Stop tracing to add TIDs to or remove TIDs from the list.

For messages that are 256 bytes, the log stores up to 200 messages. For messages that are 610 bytes, the buffer stores up to 90 messages. Information for each message includes the TID, time stamp, and TCAP details.

When tracing is active, AINTRACE checks all AIN incoming and outgoing messages against the TIDs selected. When a match occurs, AINTRACE writes the related information to the log.

**Note:** AINTRACE displays selected messages only. For complete call flows, select the originator.

### Syntax

Examples of AINTRACE command syntax follow.

#### HELP option

AINTRACE option HELP indicates that AINTRACE can select messages by operation code as well as by agent. An example of a MAP display follows.

## AINTRACE (continued)

---

### AINTRACE option HELP MAP display

```
>help
AINTRACE: A selective AIN TCAP message-capturing tool.

Available AINTRACE commands:

HELP - Displays this menu
START - Begins tracing activity originating on
 the selected terminal(s) and/or
 selected message(s)
STOP - Stops tracing activity
STATUS - Displays the users terminal and message
 selection list and status of AINTRACE
SELECT - Selects a terminal or message
REMOVE - Removes selected terminal or message
FORMAT - Selects type of log format
QUIT - Leaves the AINTRACE environment

For help on individual commands type "Q <command>"
where <command> is a valid AINTRACE command.
```

### SELECT option

AINTRACE option SELECT contains a MESSAGE syntax. An example of a MAP display follows.

**AINTRACE** (continued)**AINTRACE option SELECT MAP display**

```

>q select
This command selects a terminal or message for tracing.
Parameters are:
TID - specify a terminal id for the terminal
DN - specify the directory number for the terminal
LEN - specify the line equipment number for the terminal
TRK - specify the trunk clli for the terminal
LTID - specify a logical terminal id for the terminal
AC - specify an attendant console clli for the terminal
MESSAGE - specify a message
MSG - specify a message
DPT - specify the DPT clli for the terminal

Parms: <Options: > {TID <Node:> {0 TO 4095}
 <Terminal:> {0 TO 4095},
 DN <Directory Number:> STRING,
 LEN [<Site:> STRING]
 <Frame:> {0 TO 511}
 <Unit:> {0 TO 9}
 <Drawer:> {0 TO 31}
 <Circuit:> {0 TO 99},
 TRK <CLLI:> STRING
 <Member Number:> {0 TO 9999},
 LTID <LTGRP:> STRING
 <LTNUM:> {0 TO 1022}
 [<Key:> {1 TO 69}],
 AC <CLLI:> STRING,
 MESSAGE <Operation Code:> {ACG,
 CREATE_CALL,
 MONITOR_FOR_CHANGE,
 UPDATE},
 MSG <Operation Code:> {ACG,
 CREATE_CALL,
 MONITOR_FOR_CHANGE,
 UPDATE},
 DPT <CLLI:> STRING
 [<START_CIC:> {0 TO 4294967295}]
 [<END_CIC:> {0 TO 4294967295}]}

```

**AINTRACE** (continued)

---

**REMOVE option**

AINTRACE option REMOVE contains a MESSAGE syntax. An example of a MAP display follows.

**AINTRACE option REMOVE MAP display**

```
>q remove
This command removes a terminal or message from the selection list.
Parameters are:
TID - specify a terminal id for the terminal
DN - specify the directory number for the terminal
LEN - specify the line equipment number for the terminal
TRK - specify the trunk clli for the terminal
LTID - specify a logical terminal id for the terminal
AC - specify an attendant console clli for the terminal
MESSAGE - specify a message
MSG - specify a message
DPT - specify the DPT clli for the terminal
ALL - removes all selected terminals

Parms: <Options: > {TID <Node:> {0 TO 4095}
 <Terminal:> {0 TO 4095},
 DN <Directory Number:> STRING,
 LEN [<Site:> STRING]
 <Frame:> {0 TO 511}
 <Unit:> {0 TO 9}
 <Drawer:> {0 TO 31}
 <Circuit:> {0 TO 99},
 TRK <CLLI:> STRING
 <Member Number:> {0 TO 9999},
 LTID <LTGRP:> STRING
 <LTNUM:> {0 TO 1022}
 [<Key:> {1 TO 69}],
 AC <CLLI:> STRING,
 MESSAGE <Operation Code:> {ACG,
 CREATE_CALL,
 MONITOR_FOR_CHANGE,
 UPDATE},
 MSG <Operation Code:> {ACG,
 CREATE_CALL,
 MONITOR_FOR_CHANGE,
 UPDATE},
 DPT <CLLI> STRING,
 ALL}
```

**STATUS option**

AINTRACE option STATUS displays the messages that were selected. An example of a MAP display follows.

**AINTRACE** (continued)**AINTRACE option STATUS MAP display**

```
>q status
This command lists selected terminals and messages and tool
status.
```

The following table describes command parameter and variables.

**Command parameter and variable descriptions**

| Parameters and variables | Value                                                                                                      | Description                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| TID                      | <Node:> {0 TO 4095}<br><Terminal:> {0 TO 4095}                                                             | This parameter specifies a terminal id for the terminal.             |
| DN                       | <Directory Number:><br>STRING                                                                              | This parameter specifies the directory number for the terminal.      |
| LEN                      | [<Site:> STRING]<br><Frame:> {0 TO 511}<br><Unit:> {0 TO 9}<br><Drawer:> {0 TO 31}<br><Circuit:> {0 TO 99} | This parameter specifies the line equipment number for the terminal. |
| TRK                      | <CLLI:> STRING<br><Member Number:> {0 TO 9999}                                                             | This parameter specifies the trunk cli for the terminal.             |
| LTID                     | <LTGRP:> STRING<br><LTNUM:> {0 TO 1022}<br>[<Key:> {1 TO 69}]                                              | This parameter specifies a logical terminal id for the terminal.     |
| AC                       | <CLLI:> STRING                                                                                             | This parameter specifies an attendant console cli for the terminal.  |
| MESSAGE                  | <Operation Code:> {ACG, CREATE_CALL, MONITOR_FOR_CHANGE, UPDATE},                                          | This parameter specifies a message.                                  |
| MSG                      | <Operation Code:> {ACG, CREATE_CALL, MONITOR_FOR_CHANGE, UPDATE},                                          | This parameter specifies a message.                                  |

**AINTRACE** (continued)

---

**Command parameter and variable descriptions (Continued)**

| Parameters and variables | Value          | Description                                             |
|--------------------------|----------------|---------------------------------------------------------|
| DPT                      | <CLLI:> STRING | This parameter specifies the CLLI for the DPT terminal. |
| ALL                      | NA             | This parameter specifies all selected terminals.        |

**Example**

The following table provides an example of the help command.

**Help command example**

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Command:</b>             | >help                                       |
| <b>Description of task:</b> | Provides a help screen for the sub commands |

**AINTRACE** (continued)**Help command example**

**MAP response:** >>help

AINTRACE: A selective AIN TCAP message-capturing tool.

Available AINTRACE commands:

HELP - Displays this menu

START - Begins tracing activity originating on the selected terminal(s) and/or selected message(s)

STOP - Stops tracing activity

STATUS - Displays the users terminal and message selection list and status of AINTRACE

SELECT - Selects a terminal or message

REMOVE - Removes selected terminal or message

FORMAT - Selects type of log format

QUIT - Leaves the AINTRACE environment

For help on individual commands type "Q <command>" where <command> is a valid AINTRACE command.

**Explanation:** AINTRACE displays the help screen for sub commands.

The following table provides an example of the select command.

**Select command example**

**Command:** > select msg Create\_Call

**Description of task:** Selects non call-related message Create\_Call for tracing

**MAP response:** >Warning: tracing messages may have a real-time impact on Call processing.

**Explanation:** AINTRACE selected message Create\_Call for tracing.



**AINTRACE** (continued)

---

The following table provides an example of the status command.

**Status command example**

|                             |                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > status                                                                                                                                                        |
| <b>Description of task:</b> | Provides the status of the AINTRACE tool.                                                                                                                       |
| <b>MAP response:</b>        | >>status<br><br>TRACING: Stopped<br><br>FORMAT: BOTH<br><br>TERMINALS SELECTED:<br><br>There are no tids selected.<br><br>MESSAGES SELECTED:<br><br>CREATE_CALL |
| <b>Explanation:</b>         | AINTRACE displays the messages and terminals selected for tracing.                                                                                              |

The following table provides an example of the remove command.

**remove command example**

|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| <b>Command:</b>             | > remove message Create_Call                                       |
| <b>Description of task:</b> | Removes message Create_Call from the list of messages for tracing. |
| <b>MAP response:</b>        | >no response                                                       |
| <b>Explanation:</b>         | AINTRACE removed message Create_Call from the list.                |

The following table provides an example of the select command.

**Select command example**

|                             |                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------|
| <b>Command:</b>             | > select DN 6136210301                                                                |
| <b>Description of task:</b> | Selects the terminal with the directory number 6136210301                             |
| <b>MAP response:</b>        | >no response                                                                          |
| <b>Explanation:</b>         | AINTRACE selected a terminal with DN 6136210301 for tracing messages on the terminal. |

**Note:** For select and remove sub commands, options Msg and Message are interchangeable.

---

**AINTRACE** (continued)

---

**Responses**

Query and response messages can display parameters CarrierUsage and NatureOfCarrier.

The AINTRACE tool can capture query messages for trigger TRA.

The NA016 product release enhances the AINTRACE tool to:

- Display the Carrier parameters in incoming Send-to-Resource conversation messages.
- Display the TSTRCTimer parameter in the Send\_To\_Resource message.

The NA017 product release enhances the AINTRACE tool to:

- Display the Connect-to-Resource parameters in the incoming conversation/response message.
- Display the Timeout and Disconnect values when these parameters are received in the SCP messages by the terminal.
- Support the GenericDigitsList parameter in the Termination Attempt and Info Analyzed query messages.
- Support the Calling Geodetic Location parameter in the Termination Attempt and Info Analyzed query messages.
- Support the Timeout and Disconnect parameters.

**Release history****NA017**

Feature 59036223 enhances AINTRACE to support the GenericDigitsList and Calling Geodetic Location parameters in the Termination Attempt and Info Analyzed query messages.

Feature 59037100 enhances AINTRACE to display the Timeout and Disconnect event messages sent in a query message from a terminal and in the Request\_Report\_BCM\_Event message when received in the SCP messages by the terminal.

Feature 59037140 enhances AINTRACE to support the display of the Connect\_To\_Resource (CTR) parameters in the incoming conversation/response message.

**NA016**

Feature 59028621 enhances AINTRACE to display TSTRCTimer parameter in the Send\_To\_Resource (STR) and Call\_Info\_To\_Resource (CITR) conversation messages.

## **AINTRACE** (end)

---

Feature 59028643 enhances AINTRACE to display Carrier parameters in the incoming Send\_To\_Resource conversation message.

### **NA015**

Feature 59022523 enhances AINTRACE to display DPConverter parameter in Collect\_Info / Send\_To\_Resource message.

### **NA014**

Feature 59016521 enhances query and response messages to display parameters CarrierUsage and NatureOfCarrier.

Feature 59016005 enhances the AINTRACE tool to support trigger TRA.

### **NA013**

Feature 59013251 changes the following options for AINTRACE: SELECT and REMOVE.

### **NA012**

Feature 59006320 allows the AINTRACE tool to recognize the ExtendedRinging parameter in a Send\_To\_Resource response message.

---

**autodump**

---

**Type**

The autodump command is a nonmenu command.

**Target**

The command target for the autodump command is ALL.

**Description**

Use the autodump command with a parameter to control the scheduled autodumps.

**Release history****BASE13**

A new parameter, USESDM is added to the autodump command.

**Limitations and restrictions**

The autodump command has no limits or restrictions.

**Syntax**

The autodump command syntax is as follows:

```
autodump <OPERATION:> {HISTORY [<HISTORY OPTION> {ISN,
 FILE <FILENAME> STRING}},
 DEBUG [<DEBUG OPTION> {ISN,
 FILE <FILENAME> STRING}},
 STATUS,
 ON,
 OFF,
 MANUAL [<NODES TO IMAGE> {ISN,
 ALL}}
 [<SDM SPOOLING OPTION> {USESDM}],
 RETAIN}
```

**autodump** (continued)

---

The following table describes the parameters and variables of the autodump command.

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value | Description                                                                                                                                                                                                                                                                                                                  |
|--------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| history                  | NA    | This parameter displays output messages and other information about the last image dump attempt. The history option provides a brief listing of the events of the last image.                                                                                                                                                |
|                          | isn   | This parameter displays output messages and other information about the last ISN image dump attempt. The history option provides a brief listing of the events of the last ISN image. It does not include information about the last CM image dump.                                                                          |
|                          | file  | This parameter displays output messages and other information from the history file specified using the file option                                                                                                                                                                                                          |
| debug                    | NA    | This parameter displays detailed output messages and other information about the last image dump attempt. The debug option provides a detailed listing of all the events of the last image.                                                                                                                                  |
|                          | isn   | This parameter displays detailed output messages and other information about the last ISN image dump attempt. The debug option provides a detailed listing of all the events of the last ISN image.                                                                                                                          |
|                          | file  | This parameter displays detailed output messages and other information from the history file specified using the file option.                                                                                                                                                                                                |
| status                   | NA    | <p>This parameter displays the following information:</p> <p>the last successful image dump</p> <ul style="list-style-type: none"><li>•</li><li>• the last image dump</li><li>• the current status of the image dump process</li><li>• the next scheduled dump time</li><li>• the volume that holds the image dump</li></ul> |

**autodump** (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value  | Description                                                                                                                                                                                                                             |
|--------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| on                       | NA     | This parameter turns the auto-image dump process on.                                                                                                                                                                                    |
| off                      | NA     | This parameter turns the auto-image dump process off.                                                                                                                                                                                   |
| manual                   | NA     | This parameter starts the image dump process immediately. Performing a manual dump does not affect scheduled auto-image.                                                                                                                |
|                          | isn    | This parameter starts the manual image dump process to image ISN nodes only. The CM is not imaged.                                                                                                                                      |
|                          | all    | This parameter starts the manual image dump process to image both the CM and all ISN nodes.                                                                                                                                             |
|                          | usesdm | This parameter causes the CM image dump process to use the SDM. The lock out time period for recent changes is significantly reduced by using the SDM during the image dump process. The overall image dump time is slightly increased. |
| retain                   | NA     | This parameter changes primary load route updating.                                                                                                                                                                                     |

**Example**

The following table provides an example of the autodump command.

**Command example (Sheet 1 of 2)**

|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| <b>Command:</b>             | > autodump status                                                    |
| <b>Description of task:</b> | Display information about the last dump and the next scheduled dump. |

**autodump** (continued)

---

**Command example (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Successful Image: S880516104701IMG<br>Taken: 1988/ 05/16 10:47:08:6610 MON.<br>On Volume: D00IMAGE<br><br>Last image: S880519141502IMG (ERASED)<br>Taken: 1988/ 05/19 14:15:20.713 THU.<br>On Volume: D00IMAGE<br><br>SCHEDULED Image Dump is ON.<br>Next scheduled dump is MONDAY at 10:42 hours.<br>Next image to be dumped on D010TEMP. |
| <b>Explanation:</b>  | This command displays information about the last dump and the next scheduled dump.                                                                                                                                                                                                                                                         |

**Responses**

The following table explains possible responses to the autodump command.

**MAP responses with associated meanings and actions (Sheet 1 of 7)**

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;autodump</b>                                                          |
| <b>MAP response:</b> | ENTER: <OPERATION>                                                           |
| <b>Meaning:</b>      | You omitted the required parameter.                                          |
| <b>Actions:</b>      | Enter a parameter.                                                           |
| <b>Command:</b>      | <b>&gt;autodump history</b>                                                  |
| <b>MAP response:</b> | Error Printing Hlstory File.                                                 |
| <b>Meaning:</b>      | The last history file has been corrupted.                                    |
| <b>Actions:</b>      | Enter the command again designating the specific history file to be printed. |
| <b>Command:</b>      | <b>&gt;autodump history</b>                                                  |
| <b>MAP response:</b> | File does not exist.                                                         |
| <b>Meaning:</b>      | You entered the history parameter but the history file has been erased.      |
| <b>Actions:</b>      | None                                                                         |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                   |
| <b>MAP response:</b> | Image dump aborted - Another dump is already in progress                     |

## autodump (continued)

### MAP responses with associated meanings and actions (Sheet 2 of 7)

|                      |                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | A dump is in progress.                                                                                                           |
| <b>Actions:</b>      | Wait for previous dump to finish. Enter the command again.                                                                       |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                       |
| <b>MAP response:</b> | Image Dump Aborted - CC Rex Test in progress.                                                                                    |
| <b>Meaning:</b>      | You entered the manual parameter or a scheduled image dump is starting while the CC Rex Test is in progress. The command aborts. |
| <b>Actions:</b>      | After the CC Rex Test completes, enter the command again.                                                                        |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                       |
| <b>MAP response:</b> | Image Dump Aborted - could not create history file.                                                                              |
| <b>Meaning:</b>      | The image history file cannot be created. The command aborts.                                                                    |
| <b>Actions:</b>      | Investigate the disk volumes. There is probably not enough space on the image volume.                                            |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                       |
| <b>MAP response:</b> | Image Dump Aborted - Could not stop Journal File                                                                                 |
| <b>Meaning:</b>      | The journal file is active but could not be stopped. The command aborts.                                                         |
| <b>Actions:</b>      | Investigate the journal file setup.                                                                                              |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                       |
| <b>MAP response:</b> | Image Dump Aborted - No ACTIVE volumes in table IMAGEDEV.                                                                        |
| <b>Meaning:</b>      | You entered the manual parameter but there are no volumes in the IMAGEDEV table that are active. The command aborts.             |
| <b>Actions:</b>      | Datafill a volume or activate an existing volume in the IMAGEDEV table and repeat the command.                                   |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                       |
| <b>MAP response:</b> | Image Dump Aborted - Not enough space on any ACTIVE volumes.                                                                     |
| <b>Meaning:</b>      | The system could not find enough space on any active volumes and aborted the dump.                                               |
| <b>Actions:</b>      | Verify the image disk space and remove unwanted images and history files.                                                        |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                       |



**autodump** (continued)**MAP responses with associated meanings and actions (Sheet 3 of 7)**

|                      |                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Image Dump Already Started.                                                                                                          |
| <b>Meaning:</b>      | You entered the manual parameter but there is a scheduled image dump already in progress.                                            |
| <b>Actions:</b>      | After the system completes the image dump, enter the command again.                                                                  |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                           |
| <b>MAP response:</b> | Image Dump Failed.                                                                                                                   |
| <b>Meaning:</b>      | The image dump failed.                                                                                                               |
| <b>Actions:</b>      | Investigate swerrs, MTS, and SOS logs.                                                                                               |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                           |
| <b>MAP response:</b> | Image Dump STARTED: 1992/05/16 10:47:08:610                                                                                          |
| <b>Meaning:</b>      | This response indicates the time the system began the image dump. The system continues to execute the image dump.                    |
| <b>Actions:</b>      | None                                                                                                                                 |
| <b>Command:</b>      | <b>&gt;autodump history</b>                                                                                                          |
| <b>MAP response:</b> | Last Image: S88051604701IMG (ERASED) Taken: 1992/0516 10:47:08.610 MON.                                                              |
| <b>Meaning:</b>      | You entered the history parameter but the image failed or was interrupted by the STOPDUMP command. The system erased the image file. |
| <b>Actions:</b>      | None.                                                                                                                                |
| <b>Command:</b>      | <b>&gt;autodump status</b>                                                                                                           |
| <b>MAP response:</b> | Last Image S88051604701IMG Taken: 1992/05/16 10:47:08.610 MON. On Volume: D010IMAGE.                                                 |
| <b>Meaning:</b>      | You entered the history or status parameter and the next dump is scheduled on the displayed volume.                                  |
| <b>Actions:</b>      | None                                                                                                                                 |
| <b>Command:</b>      | <b>&gt;autodump history</b>                                                                                                          |
| <b>MAP response:</b> | Next image to be dumped on D010IMAGE.                                                                                                |
| <b>Meaning:</b>      | You entered the history or status parameter and the dump is scheduled to occur on the displayed volume.                              |

## autodump (continued)

### MAP responses with associated meanings and actions (Sheet 4 of 7)

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Actions:</b>      | None.                                                                                                                                                               |
| <b>Command:</b>      | <b>&gt;autodump status</b>                                                                                                                                          |
| <b>MAP response:</b> | Next scheduled dump is MONDAY at 10:42 hours.                                                                                                                       |
| <b>Meaning:</b>      | You entered the history or status parameter and the dump is scheduled to occur on the displayed date and time.                                                      |
| <b>Actions:</b>      | None                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;autodump status</b>                                                                                                                                          |
| <b>MAP response:</b> | No Last Image Information Available.                                                                                                                                |
| <b>Meaning:</b>      | You entered the history or status parameter and the system had not attempted to take a previous image.                                                              |
| <b>Actions:</b>      | None                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;autodump history</b>                                                                                                                                         |
| <b>MAP response:</b> | No Successful Image Information Available.                                                                                                                          |
| <b>Meaning:</b>      | You entered the history or status parameter and the system had not taken a previous successful image.                                                               |
| <b>Actions:</b>      | None                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;autodump history</b>                                                                                                                                         |
| <b>MAP response:</b> | Printing History File for Last Image...                                                                                                                             |
| <b>Meaning:</b>      | You entered the history parameter successfully.                                                                                                                     |
| <b>Actions:</b>      | None                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;autodump history</b>                                                                                                                                         |
| <b>MAP response:</b> | Record length invalid.                                                                                                                                              |
| <b>Meaning:</b>      | You entered the autodump history command. This message indicates that the history file for the last image dump attempt has been corrupted and cannot be displayed.. |
| <b>Actions:</b>      | None                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                                                          |

**autodump** (continued)

---

**MAP responses with associated meanings and actions (Sheet 5 of 7)**

|                      |                                                                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | SCHEDULED Image Dump in approximately 5 minutes... Please refrain from using the dump unsafe commands. Quit to CI if necessary. Use the STOPDUMP command to abort.                               |
| <b>Meaning:</b>      | This message appears five minutes prior to the actual dump messages.                                                                                                                             |
| <b>Actions:</b>      | None                                                                                                                                                                                             |
| <b>Command:</b>      | <b>&gt;autodump off</b>                                                                                                                                                                          |
| <b>MAP response:</b> | SCHEDULED Image Dump is OFF.                                                                                                                                                                     |
| <b>Meaning:</b>      | You entered the autodump history or the autodump off command. You turned on the scheduled image dump process.                                                                                    |
| <b>Actions:</b>      | Use the autodump on command to turn the process on and start dump scheduling.                                                                                                                    |
| <b>Command:</b>      | <b>&gt;autodump on</b>                                                                                                                                                                           |
| <b>MAP response:</b> | SCHEDULED Image Dump is ON.                                                                                                                                                                      |
| <b>Meaning:</b>      | You entered the autodump history or the autodump on command. You turned on the scheduled image dump process.                                                                                     |
| <b>Actions:</b>      | Use the autodump off command to turn the process off and stop any scheduled dumps.                                                                                                               |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                                                                                       |
| <b>MAP response:</b> | SCHEDULED Image Dump Process is not on. Use the AUTODUMP ON to activate.                                                                                                                         |
| <b>Meaning:</b>      | You entered the autodump manual command. This message indicates that the scheduled image dump process has not been turned on yet.                                                                |
| <b>Actions:</b>      | Use autodump on to initialize the scheduled image dump process.                                                                                                                                  |
| <b>Command:</b>      | <b>&gt;autodump status</b>                                                                                                                                                                       |
| <b>MAP response:</b> | Successful Image: S800516104701IMG Taken: 1992/05/16 10:47:08.610 MON. On Volume: D010IMAGE.                                                                                                     |
| <b>Meaning:</b>      | You entered the autodump history or the autodump status command and a successful image was taken. The filename, the date the image was taken, and the volume the image resides on are displayed. |
| <b>Actions:</b>      | None                                                                                                                                                                                             |

**autodump** (continued)**MAP responses with associated meanings and actions (Sheet 6 of 7)**

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                                                                          |
| <b>MAP response:</b> | ***WARNING*** Errors requesting Image dump.<br>***WARNING*** Image may NOT be dumped.                                                                                               |
| <b>Meaning:</b>      | This indicates an error in the image dump software.                                                                                                                                 |
| <b>Actions:</b>      | Wait for any additional system messages. If there are none, enter the command again.                                                                                                |
| <b>Command:</b>      | <b>&gt;autodump manual</b>                                                                                                                                                          |
| <b>MAP response:</b> | *** WARNING *** NO dump scheduled in table IMGSCHEd.                                                                                                                                |
| <b>Meaning:</b>      | You entered the autodump history or the autodump on command. This message indicates that there are no scheduled dumps datafilled in table IMGSCHEd.                                 |
| <b>Actions:</b>      | Activate a scheduled dump in table IMGSCHEd or ignore the warning message.                                                                                                          |
| <b>Command:</b>      | <b>&gt;autodump manual usesdm</b>                                                                                                                                                   |
| <b>MAP response:</b> | WARNING: There is no SDM datafilled.<br>WARNING: This image will not use the SDM.                                                                                                   |
| <b>Meaning:</b>      | There is no SDM datafilled in table SDMINV. Therefore, there is no SDM available to assist with the CM image dump. The CM image dump will proceed without the assistance of an SDM. |
| <b>Actions:</b>      | Datafill an SDM in table SDMINV to use the SDM to assist with the CM image dump.                                                                                                    |
| <b>Command:</b>      | <b>&gt;autodump ISN usesdm</b>                                                                                                                                                      |
| <b>MAP response:</b> | NOTE: The USESDM option may only be used in conjunction with an active side CM image.                                                                                               |
| <b>Meaning:</b>      | The usesdm option can only be used in conjunction with a CM image dump. If issued while performing an ISN autodump, the functionality is automatically turned off.                  |
| <b>Actions:</b>      | Only attempt to use the usesdm option with an image dump that includes imaging the CM.                                                                                              |
| <b>Command:</b>      | <b>&gt;autodump manual usesdm</b>                                                                                                                                                   |

**autodump** (end)

---

**MAP responses with associated meanings and actions (Sheet 7 of 7)**

|               |                                                                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| MAP response: | WARNING: The SDM is not in an acceptable state to use during an image dump.<br>This image will not use the SDM.                                    |
| Meaning:      | The SDM is not working properly or is not inservice. The image dump will proceed without using the SDM to assist.                                  |
| Actions:      | Troubleshoot the SDM to make sure it is inservice for the next SDM assisted image dump.                                                            |
| Command:      | >autodump manual usesdm                                                                                                                            |
| MAP response: | Using SDM data store spooling option ...                                                                                                           |
| Meaning:      | This output shows the CM image dump is using the SDM to assist with the image dump.                                                                |
| Actions:      | None                                                                                                                                               |
| Command:      | >autodump manual                                                                                                                                   |
| MAP response: | Using enhanced checksum check method ...                                                                                                           |
| Meaning:      | All CM image dumps use a new method for data store and program store check. The new method speeds up the overall image dump process significantly. |
| Actions:      | None.                                                                                                                                              |

---

**bittrace**

---

**Type**

The bittrace command is a nonmenu command.

**Target**

The command target for the bittrace command is BRISC.

**Description**

The bittrace command is used to enable, show, and disable a record of the ABCD bits for a given trunk.

**Release history****WT14**

Feature A59017229 (Bit Trace for R1 and R2 Trunks) introduced the bittrace command.

**Limitations and restrictions**

The following limits and restrictions apply to the bittrace command:

- The bittrace command is available to only one user at a time.
- When the active unit of the relevant PM is accessed by another PMDEBUG session, bittrace cannot be run for that PM.
- PMDEBUG can be used by only three users at a time. The bittrace command is counted as a type of PMDEBUG connection. When bittrace is running, PMDEBUG usage is available to only two users. If PMDEBUG is already used by three users, bittrace cannot run.

**Syntax**

The bittrace command syntax is as follows:

```
bittrace <PM type> {PDTTC}
 <PM number> {0 TO 255}
```

```
 subcommands {E(enable), S(show), D(disable), H(help),
 Q(quit)}
```

**bittrace** (continued)

---

The following tables describe the parameters and variables of the bittrace command.

**Command parameter and variable descriptions**

| Parameters and variables | Value    | Description                                                                     |
|--------------------------|----------|---------------------------------------------------------------------------------|
| PM type                  | PDTC     | Type of PM that the specified trunk can be connected to (only PDTC is allowed). |
| PM number                | 0 to 255 | Numerical identifier of the PDTC.                                               |

**Subcommand parameter and variable descriptions**

| Parameters and variables | Value                | Description                           |
|--------------------------|----------------------|---------------------------------------|
| Port                     | 0 to 15              | PORT number of the PDTC.              |
| Channel                  | 1 to 15 and 17 to 31 | CHANNEL number of the specified PORT. |

**Examples**

The following tables provide examples of the bittrace command.

**Command example**

|                             |                                                |
|-----------------------------|------------------------------------------------|
| <b>Command:</b>             | <b>&gt;bittrace PDTC 2</b>                     |
| <b>Description of task:</b> | BITTRACE facility for PDTC 2 pm                |
| <b>MAP response:</b>        | BITTRACE NODE CONNECTING TO PM                 |
| <b>Explanation:</b>         | This response indicates connecting to PMDEBUG. |

**Subcommand example Enable**

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;e 5 7</b>                                                       |
| <b>Description of task:</b> | To enable the record of ABCD bits for the associated port and channel. |
| <b>MAP response:</b>        | BIT RECORDING ENABLED FOR PORT 5 CHANNEL 7.                            |
| <b>Explanation:</b>         | This response indicates bit recording enabled for port 5 channel 7.    |

**bittrace** (continued)**Subcommand example Show**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <b>Command:</b>             | >s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |
| <b>Description of task:</b> | To show ABCD bit history for port and channel enabled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |
| <b>MAP response:</b>        | SIGNALLING BIT HISTORY FOR PORT 5 CHANNEL 7 (ALL TIMES IN 2MS TICKS)<br><br><div style="display: flex; justify-content: space-around;"> <div style="text-align: left;">             RX BITS<br/>             ABCD TLCLOCK DURATION<br/>             -----<br/>             1101 001CC477 8556<br/><br/>             0101 001CE5E3 76<br/>             1101 001CE62F 2936<br/>             0101 001CF1A7 3476<br/>             1101 001CFF3B 8658           </div> <div style="text-align: left;">             TX BITS<br/>             ABCD TLCLOCK DURATION<br/>             -----<br/>             ABCD 1101 001CC477 8450<br/>             ABCD 0101 001CE579 7322<br/><br/>             ABCD 1101 001D0213 233<br/>             ABCD 1101 001D02F2 8480           </div> </div> |  |  |  |  |  |
| <b>Explanation:</b>         | This response shows ABCD bit recording history for port 5 channel 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |

**Responses**

The following table explains some of the possible responses to the bittrace command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | >bittrace PDTC 2                                                                                             |
| <b>MAP response:</b> | BITTRACE IN USE.                                                                                             |
| <b>Meaning:</b>      | BITTRACE has already been running for another user.                                                          |
| <b>Actions:</b>      | System abandons the attempt to enter BITTRACE. User should wait for the running BITTRACE session is quitted. |
| <b>Command:</b>      | >bittrace PDTC 2                                                                                             |
| <b>MAP response:</b> | PMDEBUG IS BEING USED BY THREE USER                                                                          |
| <b>Meaning:</b>      | There have already been 3 PMDEBUG connections.                                                               |



## **bittrace** (end)

---

### **MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Actions:</b>      | System abandons the attempt to enter BITTRACE. User should wait for at least one of the current PMDEBUG connections is released.                                |
| <b>Command:</b>      | <b>&gt;bittrace PDTC 2</b>                                                                                                                                      |
| <b>MAP response:</b> | PM NOT EQUIPPED                                                                                                                                                 |
| <b>Meaning:</b>      | Specified PM in BITTRACE command has not been equipped.                                                                                                         |
| <b>Actions:</b>      | System abandons the attempt to enter BITTRACE. User should first check whether the PM number is correct or not, and the specified PM is equipped or not indeed. |

---

**ccnhng**

---

**Type**

The CCBHNG command is a nonmenu command.

**Target**

The command targets for the CCBHNG command are SuperNode and BRISC.

**Description**

*The CCBHNG CI-level tool allows maintenance personnel to detect long calls which exceed a predetermined time or to detect hung calls if the hung party is a trunk. CCBHNG is a command that can be entered directly from the CI environment. It belongs to the base directory PROGDIR, and is automatically attached to the user's symbol table at log on.*

**Release history****WT12**

Feature 59010018 (Long Duration Call Audit) introduced the CCBHNG command.

**Limitations and restrictions**

The following limits and restrictions apply to the CCBHNG command:

- For the long call option, this feature does not support line to line and trunk to line calls.
- The maximum buffer capacity is 50 data calls.
- All restarts stop the CCBHNG process.
- All restarts clear the CCBHNG alarm.
- During ONP, collected information is lost.

**Syntax**

The following figure shows the command syntax.

**ccnhng** (continued)

---

**CCBHNG command syntax**

```
CCBHNG <FUNCTION> {CONFIG <OPTIONS> {PERIOD <(MIN)> {1 TO 180},
 SENSITIVITY <(SEC)> {10 TO 30},
 THRESHOLD <(HOUR)> {0 TO 23}
 <(MINUTE)> {0 TO 59},
 TYPE <TYPE> {LONGCALL,
 HUNGCALL,
 BOTH},
 RESET,
 DISPLAY},
 DSPBUFF <DSPBUFF> {LONG,
 SHORT},
 START,
 STOP,
 ALARMCLR,
 BUFFCLR,
 STATUS
 END <Do you want to end CCBHNG process? > YES, NO}
```

**CCBHNG command parameters and variables (Sheet 1 of 2)**

| Command     | Parameters and variables                                                                                                                                           |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PERIOD      | The wake up period of the CCBHNG process in minutes. The default value is 180 min.                                                                                 |
| SENSITIVITY | The waiting time in seconds before deciding on a call as a hung call. A hung call situation can occur transiently during call clearing. Its default value is 30 s. |
| THRESHOLD   | The maximum call duration for long calls. The value of this parameter can be entered as hour plus minute. The default value is 2 h.                                |
| LONGCALL    | If this parameter is used, only long calls are detected.                                                                                                           |
| HUNGCALL    | If this parameter is used, only hung calls are detected.                                                                                                           |
| BOTH        | If this parameter is used, both long calls and hung calls are detected. This is the default parameter for the call type.                                           |
| RESET       | This parameter changes all settings to their default values.                                                                                                       |
| DISPLAY     | This parameter shows the current settings.                                                                                                                         |

---

**ccnhng** (continued)

---

**CCBHNG command parameters and variables (Continued) (Sheet 2 of 2)**

| Command  | Parameters and variables                                                                                                                                                                                       |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LONG     | <p>This parameter outputs a long report about the detected calls. The displayed report consists of:</p> <p>Answer time</p> <p>Detected time</p> <p>Call duration</p> <p>CCB</p>                                |
| SHORT    | <p>This parameter outputs a short report about the detected calls. The displayed report consists of:</p> <p>Answer time</p> <p>Detected time</p> <p>Call duration</p> <p>Calling agent</p> <p>Called agent</p> |
| START    | This parameter starts the CCBHNG process.                                                                                                                                                                      |
| STOP     | This parameter stops the CCBHNG process.                                                                                                                                                                       |
| ALARMCLR | This parameter clears the CCBHNG alarm, but does not clear the buffer.                                                                                                                                         |
| BUFFCLR  | This parameter clears the CCBHNG alarm and the buffer.                                                                                                                                                         |
| STATUS   | This parameter shows whether or not the CCBHNG process is active.                                                                                                                                              |

**Example**

\*\*\*\*\* Hung Call \*\*\*\*\*

Answer Time: 13:57:56    Detected Time: 15:51:39    Duration: 01:53:43

Calling Agent: <NIL>

Called Agent: CKT      OGISUPAB    0

**ccnhng** (continued)

---

The following table provides several examples of CCBHNG commands.

**Command examples (Sheet 1 of 2)**

|               |                                                                                                                                   |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Task:</b>  | <b>Set default values</b>                                                                                                         |
| Command:      | >CCBHNG CONFIG RESET                                                                                                              |
| MAP Response: | All parameters are set to their default values.                                                                                   |
| <b>Task:</b>  | <b>Display parameter settings</b>                                                                                                 |
| Command:      | >CCBHNG CONFIG DISPLAY                                                                                                            |
| MAP Response: | Following parameters will be used for CCBHNG process:<br>THRESHOLD:02:00,<br>PERIOD:180 MIN,<br>SENSITIVITY:30 SEC,<br>TYPE :BOTH |
| <b>Task:</b>  | <b>Set the THRESHOLD value</b>                                                                                                    |
| Command:      | >CCBHNG CONFIG THRESHOLD 0 59                                                                                                     |
| MAP Response: | Threshold value should not be less than Period/2.                                                                                 |
| <b>Task:</b>  | <b>Set the THRESHOLD value</b>                                                                                                    |
| Command:      | >CCBHNG CONFIG THRESHOLD 0 90                                                                                                     |
| MAP Response: | None.                                                                                                                             |
| <b>Task:</b>  | <b>Set the PERIOD value</b>                                                                                                       |
| Command:      | >CCBHNG CONFIG PERIOD 30                                                                                                          |
| MAP Response: | Period value should be less than 2*Threshold.                                                                                     |
| <b>Task:</b>  | <b>Set the PERIOD value</b>                                                                                                       |
| Command:      | >CCBHNG CONFIG PERIOD 180                                                                                                         |
| MAP Response: | None                                                                                                                              |
| <b>Task:</b>  | <b>Set the SENSITIVITY value</b>                                                                                                  |
| Command:      | >CCBHNG CONFIG SENSITIVITY 15                                                                                                     |
| MAP Response: | None                                                                                                                              |
| <b>Task:</b>  | <b>Set the call failure type to long calls</b>                                                                                    |

## ccnhng (continued)

### Command examples (Sheet 2 of 2)

|               |                                                                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Command:      | >CCBHNG CONFIG TYPE LONGCALL                                                                                                                              |
| MAP Response: | None                                                                                                                                                      |
| <b>Task:</b>  | <b>Start the CCBHNG process</b>                                                                                                                           |
| Command:      | >CCBHNG START                                                                                                                                             |
| MAP Response: | The CCBHNG process is activated.                                                                                                                          |
| <b>Task:</b>  | <b>Stop the CCBHNG process</b>                                                                                                                            |
| Command:      | >CCBHNG STOP                                                                                                                                              |
| MAP Response: | The CCBHNG process is stopped.                                                                                                                            |
| <b>Task:</b>  | <b>Display the status of the CCBHNG process</b>                                                                                                           |
| Command:      | >CCBHNG STATUS                                                                                                                                            |
| MAP Response: | The CCBHNG process is stopped.                                                                                                                            |
| <b>Task:</b>  | <b>Display the collected information in short form</b>                                                                                                    |
| Command:      | >CCBHNG DSPBUFF SHORT                                                                                                                                     |
| MAP Response: | The collected information is displayed in short form. See the example after the table.                                                                    |
| <b>Task:</b>  | <b>Display the collected information in long form</b>                                                                                                     |
| Command:      | >CCBHNG DSPBUFF LONG                                                                                                                                      |
| MAP Response: | The collected information is displayed in long form.                                                                                                      |
| <b>Task:</b>  | <b>Clear the CCBHNG alarm</b>                                                                                                                             |
| Command:      | >CCBHNG ALARMCLR                                                                                                                                          |
| MAP Response: | CCBHNG process collected some data, please call NT Field Support.<br>CCBHNG alarm will be cleared.                                                        |
| <b>Task:</b>  | <b>Clear the buffers</b>                                                                                                                                  |
| Command:      | >CCBHNG BUFFCLR                                                                                                                                           |
| MAP Response: | Collected information will be lost,<br>NT Field Support should use this command.<br>Do you want to proceed?<br>Please confirm ("YES", "Y", "NO", or "N"): |

## ccnhng (continued)

---

### Responses

The following table lists MAP responses to the command.

#### MAP responses with associated meanings and actions (Sheet 1 of 3)

**RESPONSE:**

PERIOD value should be less than  $2 \times \text{THRESHOLD}$ .

**Meaning:**

A PERIOD greater than  $2 \times \text{THRESHOLD}$  is entered.

**System action:**

Waits for the correct value.

**User action:**

Enter a PERIOD value less than  $2 \times \text{THRESHOLD}$ .

**RESPONSE:**

The recommended lower limit for the PERIOD value is 60 minutes.

**Meaning:**

A PERIOD value of less than 60 min is given. This is not recommended, because it will increase CPU effort.

**System action:**

None.

**User action:**

Enter a different PERIOD value.

**RESPONSE:**

THRESHOLD value should not be less than  $\text{PERIOD}/2$ .

**Meaning:**

A THRESHOLD value less than  $\text{PERIOD}/2$  is entered.

**System action:**

Waits for the correct value.

**User action:**

A THRESHOLD value greater than  $\text{PERIOD}/2$  should be entered.

---

**ccnhng** (continued)

---

**MAP responses with associated meanings and actions (Sheet 2 of 3)****RESPONSE:**

The CCCHNG process is already active.

**Meaning:**

The user attempted to start a CCBHNG process which was started already.

**System action:**

None.

**User action:**

None.

**RESPONSE:**

The CCBHNG process is already stopped.

**Meaning:**

The user attempted to stop the CCBHNG process which was stopped already.

**System action:**

None.

**User action:**

None.

**RESPONSE:**

The CCBHNG process collected data, please call NT Field Support. CCBHNG alarm will be cleared.

**Meaning:**

The user has entered the alarm clearing option, when the CCBHNG tool collected some data.

**System action:**

The CCBHNG alarm is cleared.

**User action:**

Call Nortel Networks Field Support.



## **ccnhng** (end)

---

### **MAP responses with associated meanings and actions (Sheet 3 of 3)**

**RESPONSE:**

Collected information will be lost, NT Field Support should use this command. Do you want to proceed? Please confirm ("YES", "Y", "NO", or "N"):

**Meaning:**

The user has entered the buffer clearing option, when the CCBHNG tool collected some data.

**System action:**

If "Y" is entered, the buffer and the CCBHNG alarm are cleared.

**User action:**

Enter "N". Before the buffer is cleared, data which has been collected should be controlled. If the data is related to a hung call, call Nortel Networks Field Support. If the data is related to a long call, check that the call is actually long. If an abnormal situation is observed, call Nortel Networks Field Support. To clear the buffer, you can use the BUFFCLR command under normal conditions.

---

**CBLKDN**

---

**Description**

The CBLKDN command changes attributes for blocks of directory numbers (DN) using the Service Order System (SERVORD). Use CBLKDN only for virtual directory number types (VDNTYPE) Route (RTE) and Call Forwarding Interface Busy (CFIB).

In NA012, a restriction on the North American number format allowed only 3-3-1 or 3-3-4 (NPA-NXX-XXXX) numbers. Station codes had either 1 or 4 digits, which led to tuple failures in one-night processes (ONP) because many tuples in Table DNROUTE had 2 or 3 digits. All existing 2- and 3-digit station codes were expanded to 4 digits to correct the tuple failure. After the tuples were expanded, however, changing the attributes for a DN block required that each tuple in DNROUTE be changed manually with the Change (CHA) Table command. The new command CBLKDN changes tuple attributes in defined blocks with one command.

**Note:** Use CBLKDN to change the attributes of a block of VDNs only from RTE to RTE and CFIB to CFIB.

**Examples**

The following is an example of the CBLKDN command for RTE. This example routes a block of consecutive DNs, from 622-1011 to 622-1013, in Serving Numbering Plan Area (SNPA) 819 to Routing Table OFRT, which has an index of 52 in Table ROUTE.

**CBLKDN** (continued)

---

**Example of the CBLKDN command for RTE in prompt mode**

```
> CBLKDN
SONUMBER: NOW 0 7 19 PM
> $
SNPA:
> 819
FROM_DN:
> 6221011
TO_DN:
> 013
VDNTYPE:
> RTE
ROUTE:
> OFRT
RTEIDX:
> 52
COMMAND AS ENTERED:
CBLKDN NOW 0 7 19 PM 819 6221011 013 RTE OFRT 52
ENTER Y TO CONFIRM, N TO REJECT, OR E TO EDIT
>
```

**Example of the CBLKDN command for RTE in no-prompt mode**

```
CBLKDN $ 819 6221011 013 RTE OFRT 52
```

An example of the CBLKDN command for CFIB follows. This example changes the CFIB for a block of consecutive DNs, from 622-1011 to 622-1013, in SNPA 819. The routing table used is Table OFRT with index 52 in the Table ROUTE. The value in the CFIBDATA table is 12 and the COMMON\_LANGUAGE\_NAME is PODPLOOPOG1. The special billing DN is 111111111, and the Remote Party Number Presentation Parameter (RPNPP) is off.

## CBLKDN (continued)

### Example of the CBLKDN command for CFIB in prompt mode

```
> CBLKDN
SONUMBER: NOW 0 7 19 PM
> $
SNPA:
> 819
FROM_DN:
> 6221011
TO_DN:
> 013
VDNTYPE:
> CFIB
TABNAME:
> OFRT
INDEX
> 52
CFIBID
> 12
CFIBBASE
> PODPLOOPOG1
CFIBSBDN
> 11111111
RPNPP
> N
COMMAND AS ENTERED:
CBLKDN NOW 0 7 19 PM 819 6221011 013 CFIB OFRT 52 12
PODPLOOPOG1 11111111 N $
ENTER Y TO CONFIRM, N TO REJECT, OR E TO EDIT
>
```

### Example of the CBLKDN command for CFIB in no-prompt mode

```
CBLKDN $819 6221011 013 CFIB OFRT 52 12 PODPLOOPOG1
11111111 N
```

**CBLKDN** (continued)**Prompts**

The table that follows provides the system prompts for the CBLKDN command, in order of appearance.

**Input prompts for the CBLKDN command (Sheet 1 of 2)**

| Prompt         | Correct input                                                                                                               | Explanation                                                                                                                                                  |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SONUMBER       | Carriage return, \$, Current_date, Future_date                                                                              | Describes the date/time at which the SO command CBLKDN executes. To enter the current date and time, press ENTER or type a \$.                               |
| SNPA           | Valid SNPA as defined in Table SNPANAME                                                                                     | The CBLKDN command only can be executed on a block of DNs having the same SNPA digits. The SNPA prompt appears only when DUP_OFCODE_PRESENT is set to FALSE. |
| FROM_DN        | NXXXXXX digits of a valid DN<br>Ensure that the SNPA combination exists in Table TOFCNAME when entering the digits.         | Specifies the current DN, which CBLKDN will change to the DN specified in TO_DN.                                                                             |
| TO_DN          | The last three digits of the block.<br>Ensure that the digits indicated are greater than the XXX digits defined in FROM_DN. | Specifies the new DN.                                                                                                                                        |
| VDNTYPE        | RTE or CFIB                                                                                                                 | CBLKDN command supports VDNTYPE of RTE and CFIB only.                                                                                                        |
| ROUTE, TABNAME | Any routing table such as OFRT or IBNRTE                                                                                    | Indicate any routing table.                                                                                                                                  |
| RTEIDX, INDEX  | Any valid index defined in ROUTE table                                                                                      | Route reference index.                                                                                                                                       |
| CFIBID         | Any key value in table CFIBDATA                                                                                             | Indicate the key in CFIBDATA table.                                                                                                                          |

---

**CBLKDN (end)**


---

**Input prompts for the CBLKDN command (Sheet 2 of 2)**

| Prompt   | Correct input                       | Explanation                                                |
|----------|-------------------------------------|------------------------------------------------------------|
| CFIBBASE | Any valid<br>COMMON_LANGUAGE_NAME   | Indicate a valid<br>COMMON_LANGUAGE_<br>NAME.              |
| CFIBSBDN | The valid entry value is ten digits | Define the special billing<br>DN.                          |
| RPNPP    | N or Y                              | Sets the Remote Party<br>Number Presentation<br>Parameter. |

**CBLKDN to line class code compatibility**

The CBLKDN command does not affect LCC compatibility.

**Assignability**

There are no functionalities for this command.

**Option prerequisites**

There are no prerequisites for this command.

**Notes**

There are no notes for this command.

**Feature identification**

Functionality: Change the attributes of a block of virtual directory numbers.

Feature number: AT.59024289—SERVORD enhancement  
command—Change Block of Directory Numbers.

## **clog**

---

### **Type**

The clog command is a nonmenu command.

### **Target**

The command target for the clog command is ALL.

### **Description**

Use the clog command to access the CLOG directory.

### **Release history**

This section identifies if the command is new or changed, and the applicable software release.

#### **NA008**

Feature AR2230 changed the clog command to support duplicate NXX. Prior to the introduction of the Duplicate NXX Support feature, the switch could not distinguish between ambiguous directory numbers (DN). With this feature, if you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

### **Limitations and restrictions**

The following limits and restrictions apply to the clog command:

- If the DN entered with the status or reset option is ambiguous, or if the first DN entered with the queue or deq option is ambiguous, the following warning displays:

The REQUESTEE DN Entered is Ambiguous—Include NPA

- If the second DN entered with the queue or deq option is ambiguous, the following warning displays:

The REQUESTOR DN Entered is Ambiguous—Include NPA

### **Syntax**

There is no change to the clog command syntax.

## Example

The following table provides an example of the clog command.

### Command example

|                             |                                       |
|-----------------------------|---------------------------------------|
| <b>Command:</b>             | <b>&gt;clog</b>                       |
| <b>Description of task:</b> | Access the CLOG directory.            |
| <b>MAP response:</b>        | CLOG:                                 |
| <b>Explanation:</b>         | You have accessed the CLOG directory. |

## Responses

The following table explains possible responses to the clog command.

### MAP responses with associated meanings and actions

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;clog</b>                                                                                                                                                   |
| <b>MAP response:</b> | MODULE NOT LOADED OR NEEDS OTHER CI INCREMENT TO BE BUILT.                                                                                                        |
| <b>Meaning:</b>      | The CLOG directory is not loaded or must be accessed through another directory.                                                                                   |
| <b>Actions:</b>      | Access another directory or end this session.                                                                                                                     |
| <b>Command:</b>      | <b>&gt;clog</b>                                                                                                                                                   |
| <b>MAP response:</b> | Undefined command "<command>".                                                                                                                                    |
| <b>Meaning:</b>      | The command you entered is spelled incorrectly; this directory is accessed using another entry code; or the CLOG directory is not included in this software load. |
| <b>Actions:</b>      | Reissue this command; access another directory; or end this session.                                                                                              |
| <b>Command:</b>      | <b>&gt;clog</b>                                                                                                                                                   |
| <b>MAP response:</b> | The REQUESTEE DN Entered is Ambiguous-Include NPA.                                                                                                                |
| <b>Meaning:</b>      | The DN you entered is a duplicate NXX.                                                                                                                            |
| <b>Actions:</b>      | Enter the full ten-digit DN.                                                                                                                                      |



## dninvci collapse

---

### Type

The DNINVCI COLLAPSE command is a nonmenu command.

### Target

The command target for the DNINVCI COLLAPSE command is ALL.

### Description

This command collapses a continuous range of tuples in table DNROUTE that share a common Call Processing Identifier (CPID).

### Release history

#### NA012

Feature 59005926 (Table DNINV Expansion) introduces the DNINVCI COLLAPSE command.

### Limitations and restrictions

Only one instance of the DNINVCI COLLAPSE command can be run at any time.

### Syntax

The DNINVCI COLLAPSE command syntax is as follows:

```
DNINVCI COLLAPSE {<AREACODE><OFCCODE><STNCCODE>}
```

The following table describes the parameters and variables of the DNINVCI COLLAPSE command.

#### Command parameter and variable descriptions

| Parameters and variables | Value           | Description                                       |
|--------------------------|-----------------|---------------------------------------------------|
| AREACODE                 | 3-digit integer | The Numbering Plan Area (NPA) of a DNROUTE tuple. |
| OFCCODE                  | 3-digit integer | The Office Code (OFC) of a DNROUTE tuple.         |
| STNCCODE                 | 4-digit integer | The Station Code (STNC) of a DNROUTE tuple.       |

**dninvci collapse** (end)**Example**

The following table provides an example of the DNINVCI COLLAPSE command.

**Command example**

|                             |                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;DNINVCI COLLAPSE 613 621 1</b>                                                                                                                |
| <b>Description of task:</b> | Replace a range of tuples (in this case, 613 621 1NNN) that have different STNCCODE digits with a single tuple to represent all tuples in the range. |
| <b>MAP response:</b>        | Tuple collapsed                                                                                                                                      |
| <b>Explanation:</b>         | All tuples starting with 613 621 1 that have the same CPID in table DNROUTE are deleted and replaced with a single tuple 613 621 1.                  |

**Responses**

The following table explains possible responses to the DNINVCI COLLAPSE command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;DNINVCI COLLAPSE{&lt;AREACODE&gt;&lt;OFCCODE&gt;&lt;STNCCODE&gt;}</b>                                                   |
| <b>MAP response:</b> | Tuple collapsed                                                                                                                |
| <b>Meaning:</b>      | The operation was successful. All the tuples identified in the command are deleted and replaced with a single collapsed tuple. |
| <b>Actions:</b>      | None.                                                                                                                          |
| <b>Command:</b>      | <b>&gt;DNINVCI COLLAPSE {&lt;AREACODE&gt;&lt;OFCCODE&gt;&lt;STNCCODE&gt;}</b>                                                  |
| <b>MAP response:</b> | Tuples not Collapsed                                                                                                           |
| <b>Meaning:</b>      | The operation was not successful. Not all the tuples in the defined range existed, or not all the tuples had the same CPID.    |
| <b>Actions:</b>      | None.                                                                                                                          |

## dninvci expand

---

### Type

The DNINVCI EXPAND command is a nonmenu command.

### Target

The command target for the DNINVCI EXPAND command is ALL.

### Description

This command generates a range of tuples in table DNROUTE from a single compressed tuple.

### Release history

#### NA012

Feature 59005926 (Table DNINV Expansion) introduces this command.

### Limitations and restrictions

Only one instance of the DNINVCI EXPAND command can be run at any time.

### Syntax

The DNINVCI EXPAND command syntax is as follows:

```
DNINVCI EXPAND {<AREACODE><OFCCODE><STNCCODE><DIGITS>}
```

The following table describes the parameters and variables of the DNINVCI EXPAND command.

#### Command parameter and variable descriptions

| Parameters and variables | Value                    | Description                                       |
|--------------------------|--------------------------|---------------------------------------------------|
| AREACODE                 | 3-digit integer          | The Numbering Plan Area (NPA) of a DNROUTE tuple. |
| OFCCODE                  | 3-digit integer          | The Office Code (OFC) of a DNROUTE tuple.         |
| STNCCODE                 | 4-digit integer          | The Station Code (STNC) of a DNROUTE tuple.       |
| DIGITS                   | 1-digit integer (0 to 8) | The number of digits in the STNCCODE string.      |

**dninvci expand** (end)**Example**

The following table provides an example of the DNINVCI EXPAND command.

**Command example**

|                             |                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;DNINVCI EXPAND 613 621 1 4</b>                                                                                                                 |
| <b>Description of task:</b> | Creates a sequential range of tuples in table DNROUTE (in this case, 613 621 1000 to 613 621 1999) from a single compressed tuple.                    |
| <b>MAP response:</b>        | Tuple Expanded.                                                                                                                                       |
| <b>Explanation:</b>         | Creates a sequential range of tuples in table DNROUTE (in this case, 613 621 1000 to 613 621 1999) with the same CPID from a single compressed tuple. |

**Responses**

The following table explains possible responses to the DNINVCI EXPAND command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;DNINVCI EXPAND{&lt;AREACODE&gt;&lt;OFCCODE&gt;&lt;STNCCODE&gt;}</b>                                                            |
| <b>MAP response:</b> | Tuple expanded                                                                                                                        |
| <b>Meaning:</b>      | The operation was successful. All the tuples identified in the command are generated.                                                 |
| <b>Actions:</b>      | None.                                                                                                                                 |
| <b>Command:</b>      | <b>&gt;DNINVCI EXPAND {&lt;AREACODE&gt;&lt;OFCCODE&gt;&lt;STNCCODE&gt;}</b>                                                           |
| <b>MAP response:</b> | Tuples not Expanded                                                                                                                   |
| <b>Meaning:</b>      | The operation was not successful. The tuple indicated by the command parameters does not exist, or an out of memory condition exists. |
| <b>Actions:</b>      | None.                                                                                                                                 |

## dump

---

### Type

The dump command is a nonmenu command.

### Target

The command target for the dump command is ALL.

### Description

Use this command to make a system image.

### Release history

#### BASE13

Two new options, the check method and SDM spooling option are added to the dump command.

### Limitations and restrictions

The dump command has no limits or restrictions.

### Syntax

The dump command syntax is as follows:

```
dump <FILENAME> STRING
 <DEVICE> DEVICE name
 [<DUMP TYPE> {ACTIVE,
 MATE,
 UNSAFE,
 DEBUG [<OPTIONS>... {NOCHECK,
 FIRSTDSPAGE <PAGE> {0 TO 32767},
 LASTDSPAGE <PAGE> {0 TO 32767},
 FIRSTPSPAGE <PAGE> {0 TO 32767},
 LASTPSPAGE <PAGE> {0 TO 32767}}]]]
 [<ROUTE ACTION> {UPDATE,
 RETAIN}]
 [<NOISE LEVEL> {SILENT,
 TERSE,
 VERBOSE}]
 [<SCOPE> {NODE <NODENAME> {CM,
 MS <nodenumber> {0 TO 1},
 LIU7 <nodenumber> {0 TO 750},
 FRIU <nodenumber> {0 TO 750},
 EIU <nodenumber> {0 TO 750},
 LIM <nodenumber> {0 TO 99}
 <unitnumber> {0 TO 9},
 ENET <planenumber> {0 TO 1}
 <shelfnumber> {0 TO 3},
 AP <nodenumber> {0 TO 99},
 FP <nodenumber> {0 TO 99},
 XLIU <nodenumber> {0 TO 750},
 APU <nodenumber> {0 TO 750},
 GSMP <nodenumber> {0 TO 750},
```

**dump** (continued)

```

 VPU <nodenumber> {0 TO 750},
 HLIU <nodenumber> {0 TO 750},
 NIU <nodenumber> {0 TO 29}
 <unitnumber> {0 TO 1},
 HSLR <nodenumber> {0 TO 750},
 ELIU <nodenumber> {0 TO 750},
 CAU <nodenumber> {0 TO 750},
 CIU <nodenumber> {0 TO 750},
 CAVU <nodenumber> {0 TO 750},
 ACE <nodenumber> {0 TO 750},
 RMU <nodenumber> {0 TO 750},
 SVR7 <nodenumber> {0 TO 750},
 RTR7 <nodenumber> {0 TO 750},
 MLIU <nodenumber> {0 TO 750},
 AIU <nodenumber> {0 TO 750},
 AIU7 <nodenumber> {0 TO 750}},
 TOTAL [<MS> {MS0,
 MS1}]]]
 [<NOCOMPRESS OVERRIDE> {NOCOMPRESS}]
 [<CHECK METHOD> {USECHECKSUM,
 NOCHECKSUM}]
 [<SDM SPOOLING OPTION> {USEDSDM,
 NOSDM}]

```

The following table describes the parameters and variables of the dump command.

**Command parameter and variable descriptions (Sheet 1 of 4)**

| Parameters and variables | Value            | Description                                                                                                                                                                    |
|--------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| filename                 | character string | This variable specifies the filename for the dump. The image will be named with the filename specified with an extension added indicating the type of image the file contains. |
| device                   | character string | This variable specifies the device name of the device to which the resulting image will be stored.                                                                             |
| dump type                | NA               | The dump type specifies what data will be captured in the image file.                                                                                                          |
|                          | active           | This default parameter dumps the active processor with PROT store frozen.                                                                                                      |
|                          | mate             | This parameter drops sync, freezes the mate PROT store, then dumps the mate's store.                                                                                           |
|                          | unsafe           | This parameter does an active dump with PROT store only partially frozen.                                                                                                      |

**dump** (continued)**Command parameter and variable descriptions (Sheet 2 of 4)**

| Parameters and variables | Value                  | Description                                                                                                                                                                |
|--------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| route action             | debug                  | This parameter dumps the mate PROT store which is partially frozen. This is only used for debugging.                                                                       |
|                          | debug nocheck          | This parameter specifies that the debug image is not checked during imaging.                                                                                               |
|                          | debug firstdspage page | This parameter specifies the number of the first DS page to dump. Ranges 0 to 32767.                                                                                       |
|                          | debug irstpspage page  | This parameter specifies the number of the first PS page to dump. Ranges 0 to 32767.                                                                                       |
|                          | debug lastdspage page  | This parameter specifies the number of the last DS page to dump. Ranges 0 to 32767.                                                                                        |
|                          | debug lastpspage page  | This parameter specifies the number of the last PS page to dump. Ranges 0 to 32767.                                                                                        |
|                          | NA                     | This parameter specifies if the autoload route should be updated.                                                                                                          |
| noise level              | update                 | This parameter updates the current autoload route to be the device in which the image is being taken to.                                                                   |
|                          | retain                 | This default parameter retains the current autoload route.                                                                                                                 |
|                          | NA                     | This paramter indicates what level of output the image process should produce.                                                                                             |
|                          | silent                 | This verbosity paramter specifies that no console output is generated.                                                                                                     |
| scope                    | terse                  | This default is the terse paramter, which does not output a message per vast area dumped.                                                                                  |
|                          | verbose                | This produces an output message for each vast area dumped. Due to the speed of output during a CM image dump with the SDM assisting some output messages will not be seen. |
|                          | NA                     | The scope defines what nodes will be imaged.                                                                                                                               |
|                          | node                   | This parameter dumps a specified node. The node specified may be the CM or any other ISN node.                                                                             |

**dump** (continued)**Command parameter and variable descriptions (Sheet 3 of 4)**

| Parameters and variables | Value       | Description                                                                                                                                                                                                                 |
|--------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |             | NAME NODE UNIT SHELF PLANE                                                                                                                                                                                                  |
|                          |             | MS 0 to 1                                                                                                                                                                                                                   |
|                          |             | LIU7 0 to 750                                                                                                                                                                                                               |
|                          |             | FRIU 0 to 750                                                                                                                                                                                                               |
|                          |             | EIU 0 to 750                                                                                                                                                                                                                |
|                          |             | LIM 0 to 99 0 to 9                                                                                                                                                                                                          |
|                          |             | ENET 0 to 1 0 to 3                                                                                                                                                                                                          |
|                          |             | AP 0 to 99                                                                                                                                                                                                                  |
|                          |             | FP 0 to 99                                                                                                                                                                                                                  |
|                          |             | XLIU 0 to 750                                                                                                                                                                                                               |
|                          |             | APU 0 to 750                                                                                                                                                                                                                |
|                          |             | GSMP 0 to 750                                                                                                                                                                                                               |
|                          |             | VPU 0 to 750                                                                                                                                                                                                                |
|                          |             | HLIU 0 to 750                                                                                                                                                                                                               |
|                          |             | NIU 0 to 29 0 to 1                                                                                                                                                                                                          |
|                          |             | HSLR 0 to 750                                                                                                                                                                                                               |
|                          |             | ELIU 0 to 750                                                                                                                                                                                                               |
|                          |             | CAU 0 to 750                                                                                                                                                                                                                |
|                          |             | CIU 0 to 750                                                                                                                                                                                                                |
|                          |             | CAVU 0 to 750                                                                                                                                                                                                               |
|                          |             | ACE 0 to 750                                                                                                                                                                                                                |
|                          |             | RMU 0 to 750                                                                                                                                                                                                                |
|                          |             | SVR7 0 to 750                                                                                                                                                                                                               |
|                          |             | RTR7 0 to 750                                                                                                                                                                                                               |
|                          |             | MLIU 0 to 750                                                                                                                                                                                                               |
|                          |             | AIU 0 to 750                                                                                                                                                                                                                |
|                          |             | AIU7 0 to 750                                                                                                                                                                                                               |
|                          | total       | This parameter dumps both MS 0 and the CM.                                                                                                                                                                                  |
| nocompress override      | nocompress  | Entering this parameter will prevent compression of the image.                                                                                                                                                              |
| check method             | NA          | This parameter allows control of the method which is used to check the image file.                                                                                                                                          |
|                          | usechecksum | This default parameter uses checksums of the dumped store to check the image and speeds up the image dump process. This parameter is the default for the active cm dump. This parameter cannot be used for ISN image dumps. |



**dump** (continued)

---

**Command parameter and variable descriptions (Sheet 4 of 4)**

| Parameters and variables | Value      | Description                                                                                                                                                                                                            |
|--------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sdm spooling option      | nochecksum | This parameter uses the dumped store to verify the image and is a slow process. Use this option only for debugging or testing purposes. This is the default for ISN image dumps.                                       |
|                          | NA         | This parameter controls the use of the SDM when used in conjunction with a CM image dump. When an SDM is present on a Supernode CM the default is usesdm for a CM image. Otherwise, the default is nosdm.              |
|                          | usesdm     | This parameter uses the SDM to temporarily store data during the image dump process. This parameter is the default for an active cm dump. This parameter can only be used for cm image dumps.                          |
|                          | nosdm      | This parameter makes the SDM unavailable to the image dump process. The image dump process will not use the SDM. The recent changes lockout period will increase in duration. This is the default for ISN image dumps. |

**Example**

The following table provides an example of the dump command.

**Command example**

|                             |                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > dump vpu33aa x01dxpm active retain verbose node vpu31                                                                                                            |
| <b>Description of task:</b> | Dump a system image.                                                                                                                                               |
| <b>MAP response:</b>        | Not currently available                                                                                                                                            |
| <b>Explanation:</b>         | This command dumps an image of vpu31 to the file vpu33aa on device s01dxpm. The dump is of an active unit on an autoload route with all system messages displayed. |

## dump (continued)

### Responses

The following table explains possible responses to the dump command.

#### MAP responses with associated meanings and actions (Sheet 1 of 2)

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | >dump my_cm_and_ms_image s00dunit0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MAP response:</b> | CM: The checksum Check method will be used for this image dump.<br>CM: The SDM will be used to assist with this image dump.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Meaning:</b>      | The default for all image dumps that include dumping the active side cm is to use the checksum check method (usechecksum) and use the SDM (usesdm) when an SDM is available. The SDM is automatically detected and used. The messages show the checksum check method and the SDM being used.                                                                                                                                                                                                                                                      |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Command:</b>      | >dump my_cm_image s00dunit0 node cm usesdm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MAP response:</b> | WARNING: The SDM is not in an acceptable state to use during an image dump. This image will not use the SDM.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Meaning:</b>      | The SDM is not inservice. The image dump process cannot use the SDM. The image dump will continue without the use of the SDM.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Actions:</b>      | Confirm the SDM is not inservice. Contact your next level of SDM support.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Command:</b>      | >dump my_cm_image s00dunit0 nochecksum nosdm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MAP response:</b> | WARNING: Checksum checking has been turned off<br>WARNING: causing the image taking process to run<br>WARNING: much longer than normal. This may also<br>WARNING: cause recent change commands<br>WARNING: (ps dumpunsafe CI commands) to be<br>WARNING: blocked for more than 15 minutes.<br><br>WARNING: Not utilizing the SDM during the image<br>WARNING: taking process will result in the<br>WARNING: possibility that recent change commands<br>WARNING: (ps dumpunsafe CI commands) will be<br>WARNING: blocked for more than 15 minutes. |
| <b>Meaning:</b>      | The image taking process will exceed the 15 minute lockout period for recent changes. This is a warning and the image dump will continue.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Command:</b>      | >dump my_ms_image s00dunit0 node ms 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**dump** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|               |                                                                                                                                                                                                                                                                                  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAP response: | NOTE: Automatically setting the CHECK METHOD to<br>NOTE: NOCHECKSUM since this is not an active<br>NOTE: CM image dump.                                                                                                                                                          |
| Meaning:      | The checksum check method and the use of the SDM are only for active or cm node dump. This message indicates an ISN image dump will not use the checksum check method and defaults to nochecksum.                                                                                |
| Actions:      | None.                                                                                                                                                                                                                                                                            |
| Command:      | >dump my_ms_image s00dunit0 node ms 0 usechecksum usesdm                                                                                                                                                                                                                         |
| MAP response: | NOTE: The USECHECKSUM option may only be used in<br>NOTE: conjunction with an active side CM image.<br><br>NOTE: The USESDM option may only be used in<br>NOTE: conjunction with an active side CM image.                                                                        |
| Meaning:      | The checksum and usesdm are only used for active or cm node dump. Nochecksum and nosdm options are automatically used for all dumps other than active or cm node dump. The image dump will continue without using the checksum check method and without using the SDM to assist. |
| Actions:      | None.                                                                                                                                                                                                                                                                            |

---

**ESP**

---

**Type**

The ESP command is a NON-MENU command.

**Target**

The command target for the ESP command is SuperNode.

**Description**

The ESP command is already available but there are changes for the ESP OFF command. The ESP command is denied if the NETPROT command is ON.

When ESP is on, origination messages from priority accesses are PRI/QSIG with PCOS option and BRI. Analog lines with ELN are handled with priority. Priority accesses are QSIG accesses with the PCOS option provisioned.

The ESP feature BR0538 is switched on/off by the CI command: ESP on/off. ESP is on by default. ESP cannot be switched off when NETPROT is on. The request is denied and an appropriate message is shown.

**Release history****EUR008**

Feature AU2668 introduced a change for the ESP OFF command.

**Limitations and restrictions****CAUTION**

If NETPROT is ON and the ESP OFF command is given, the command is denied with the following message:

‘NETPROT is currently switched on.  
ESP cannot be turned off’ ‘until  
NETPROT is off’.

The ESP command has no limits or restrictions.

**Syntax**

*An example of the esp command syntax is as follows.*

ESP - ENABLE, DISABLE, or QUERY Essential Service Protection  
esp [<ESP\_Condition>

**ESP** (end)

---

*{ON,  
OFF}*

The ESP command syntax is as follows:

ESP     <ESP\_Condition>

The table that follows describes the parameters and variables of the ESP command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description      |
|--------------------------|-------|------------------|
| <ESP_Condition>          | ON    | Switches ESP on  |
|                          | OFF   | Switches ESP off |

**Example**

The table that follows provides an example of the ESP command.

**Command example**

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| <b>Command:</b>             | > ESP                                                                             |
| <b>Description of task:</b> | Changes are done for the ESP OFF command. The command is denied if NETPROT is ON. |
| <b>MAP response:</b>        | NETPROT is currently switched on. ESP cannot be turned off until NETPROT is off   |
| <b>Explanation:</b>         | The command is already available                                                  |

**Responses**

Unchanged responses for ESP command are not given.

**flextab**

---

**Type**

The flextab command is a nonmenu command.

**Target**

The command target for the flextab command is ALL.

**Description**

The flextab command interpreter (CI) command allows the operating company personnel to create a data modification order process (DMOPRO) file from the contents of the FLEXRES table. The DMS switch creates this file starting from the latest record stored in the FLEXRES table. The operating company personnel can run this DMOPRO file to undo the data modifications.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA015**

Made necessary changes to demonstrate that the DEVICE and FILENAME parameters are no longer optional.

**NA014**

The flextab command was introduced in the NA014 release.

**Limitations and restrictions**

The flextab command has no limits or restrictions.

**flextab** (continued)

---

**Syntax**

The flextab command syntax is as follows:

```
flextab
<ACTION> {ALL.
 KEYRANGE <FROMKEY> {1 TO 10000}
 <TOKEY> {1 to 10000},
 DATE <FROMDATE> {FROM <DD> {1 TO 31}
 <MMM> {JAN,
 FEB,
 MAR,
 APR,
 MAY,
 JUN,
 JUL,
 AUG,
 SEP,
 OCT,
 NOV,
 DEC,
 <YYYY> {2000 TO 2039}}}
 <TODATE> {TO <DD> {1 TO 31}
 <MMM> {JAN,
 FEB,
 MAR,
 APR,
 MAY,
 JUN,
 JUL,
 AUG,
 SEP,
 OCT,
 NOV,
 DEC,
 <YYYY> [2000 TO 2039]}}}
[<UserID> {USERID <UserID> STRING}]
[<Device [SFDEV]]> DEVICE name]
[<Filename [FLEXRES$DMO]> STRING]
```

**flextab** (continued)

The following table describes the parameters and variables of the flextab command.

**Command parameter and variable descriptions**

| Parameters and variables                    | Value                                                                          | Description                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACTION                                      | ALL                                                                            | This option creates a DMOPRO file for undoing all the tuple operations recorded in the FLEXRES table, starting from the latest record.                                                                                                                                                                                                                                  |
| KEYRANGE                                    | 1–10 000                                                                       | This option creates a DMOPRO file for undoing a selected range of tuple operations specified by and inclusive of the keys in the FLEXRES table.                                                                                                                                                                                                                         |
| FROMKEY<br>TOKEY                            | 1–10 000                                                                       |                                                                                                                                                                                                                                                                                                                                                                         |
| DATE<br>FROMDATE<br>DD<br>MMM               | 1–31<br>JAN, FEB, MAR,<br>APR, MAY,<br>JUN, JUL, AUG,<br>SEP, OCT,<br>NOV, DEC | This option creates a DMOPRO file for undoing a selected range of tuple operations from a specified date to another specified date, both in the FLEXRES table. The user enters the keyword FROM followed by the from date and then the keyword TO followed by the to date.                                                                                              |
| YYYY                                        | 2000–2039                                                                      | <b>Note:</b> It is not necessary that both the FROMDATE and the TODATE exist in the FLEXRES table. One of the specified dates must lie within the latest and oldest tuple dates existing in table FLEXRES. The dates can be from the oldest to the latest or the latest to the oldest. For example, from 10 APR 2000 to 15 APR 2000 or from 15 APR 2000 to 10 APR 2000. |
| TODATE<br>TO<br>DD<br>MMM                   | 1–31<br>JAN, FEB, MAR,<br>APR, MAY,<br>JUN, JUL, AUG,<br>SEP, OCT,<br>NOV, DEC |                                                                                                                                                                                                                                                                                                                                                                         |
| YYYY                                        | 2000–2039                                                                      |                                                                                                                                                                                                                                                                                                                                                                         |
| <UserID><br>[USERID<br><UserID><br>STRING]] | 1–16<br>alphanumeric<br>characters                                             |                                                                                                                                                                                                                                                                                                                                                                         |



**flextab** (continued)

---

**Command parameter and variable descriptions**

| Parameters and variables | Value                   | Description                                                                                                                                                                   |
|--------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device                   | device name             | This option allows the operating company personnel to enter the device name where the DMOPRO file should be placed. This parameter is mandatory. The default device is SFDEV. |
| Filename                 | name of the DMOPRO file | This entry is the name of the DMOPRO file. This parameter is mandatory. The default name is FLEXRES\$DMO.                                                                     |

**Example**

The following table provides an example of the flextab command.

**Command example**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt; flextab all userid user1 ntdev dmo_file</b>                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description of task:</b> | To create a DMOPRO file for undoing all the tuple operations made by user user1 recorded in the FLEXRES table, starting from the latest record.                                                                                                                                                                                                                                                                                                               |
| <b>MAP response:</b>        | <p>Dmopro file DMO_FILE will be created on NTDEV.<br/>Do you want to continue?<br/>Please confirm ("YES", "Y", "NO", or "N"):<br/>&gt;y<br/>Dmopro file DMO_FILE created successfully on NTDEV.</p> <p><b>Note:</b> If the USERID is not specified, the default considers all users. If the device name is not specified, the system takes SFDEV as the default device. If the file name is not specified, FLEXRES\$DMO is used as the default file name.</p> |
| <b>Explanation:</b>         | The DMOPRO file is created on device NTDEV.                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Responses**

The following table explains possible responses to the flextab command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;flextab all</b>                                                                                                  |
| <b>MAP response:</b> | <p>Next par is &lt;Device [SFDEV]&gt; DEVICE name<br/>Enter: &lt;Device [SFDEV]&gt; &lt;Filename [FLEXRES\$DMO]&gt;</p> |

**flextab** (continued)

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The DMS switch generates this response when any of the ALL option is used by the operating company personnel.                                                                                                      |
| <b>Actions:</b>      | Enter the device name and DMOPRO file name.                                                                                                                                                                        |
| <b>Command:</b>      | <b>&gt;flextab all userid user1 sfdev dmo_file</b>                                                                                                                                                                 |
| <b>MAP response:</b> | Dmopro file FLEXRES\$DMO will be created on SFDEV.<br>Do you want to continue?<br>Please confirm ("YES", "Y". "NO", or "N"):                                                                                       |
| <b>Meaning:</b>      | The DMS switch generates this confirmation response when any of the ALL, KEYRANGE, or DATE options are used by the operating company personnel.                                                                    |
| <b>Actions:</b>      |                                                                                                                                                                                                                    |
| <b>Command:</b>      | <b>&gt;flextab all userid user1 sfdev dmo_file</b>                                                                                                                                                                 |
| <b>MAP response:</b> | Dmopro file dmo_file created successfully on SFDEV.                                                                                                                                                                |
| <b>Meaning:</b>      | The DMS switch generates this confirmation response when any of the ALL, KEYRANGE, or DATE options are used by the operating company personnel, and the file is created successfully.                              |
| <b>Actions:</b>      |                                                                                                                                                                                                                    |
| <b>MAP response:</b> | ***ERROR: Table FLEXRES is Empty.                                                                                                                                                                                  |
| <b>Meaning:</b>      | The DMS switch generates this response when any of the ALL, KEYRANGE, or DATE options are used by the operating company personnel, and the FLEXRES table is empty. The flextab command failed.                     |
| <b>Actions:</b>      |                                                                                                                                                                                                                    |
| <b>MAP response:</b> | ***ERROR: KEY <number> does not exist in FLEXRES table.                                                                                                                                                            |
| <b>Meaning:</b>      | The DMS switch generates this response when any of the ALL, KEYRANGE, or DATE options are used by the operating company personnel, and the number does not exist in the FLEXRES table. The flextab command failed. |
| <b>Actions:</b>      |                                                                                                                                                                                                                    |
| <b>MAP response:</b> | ***ERROR: Cannot find FLEXRES table.                                                                                                                                                                               |
| <b>Meaning:</b>      | The DMS switch generates this response when any of the ALL, KEYRANGE, or DATE options are used by the operating company personnel, and the FLEXRES table does not exist in the software load of the DMS switch.    |

**flextab** (end)

---

**MAP responses with associated meanings and actions****Actions:**

**MAP response:** Unable to open file. Failed to allocate store.

**Meaning:** The DMS switch generates this response when any of the ALL, KEYRANGE, or DATE options are used by the operating company personnel to create the DMOPRO file. The response indicates the file failed to open on the specified device because of a shortage of store resources.

**Actions:**

**MAP response:** Unable to write into file. Failed to allocate store.

**Meaning:** The DMS switch generates this response when any of the ALL, KEYRANGE, or DATE options are used by the operating company personnel to create the DMOPRO file. The response indicates the command failed to write into the opened file on the specified device because of a shortage of store resources.

**Actions:**

**MAP response:** \*\*\*ERROR: FROM date after latest FLEXRES table date.

**Meaning:** The DMS switch generates this response when the DATE option is used by the operating company personnel to create the DMOPRO file. The response indicates that the FROM date entered, chronologically comes after the date of the latest tuple in the FLEXRES table.

**Actions:**

**MAP response:** \*\*\*ERROR: FROM date before oldest FLEXRES table date.

**Meaning:** The DMS switch generates this response when the DATE option is used by the operating company personnel to create the DMOPRO file. The FROM date entered, chronologically comes before the date of the oldest tuple in the FLEXRES table.

---

**INHIBIT**

---

**Type**

The INHIBIT command is a nonmenu command.

**Target**

The command target for the INHIBIT command is BRISC.

**Description**

Users can activate the INHIBIT command to intercept a current or future recording from a terminal to another device. This command limits access to commands and system resources for the TAS group.

**Release history****MMP13**

Feature 59012414 introduces the INHIBIT command in MMP13.

**Limitations and restrictions**

The following limits and restrictions apply to the INHIBIT command:

- Users who have a command class of ALL can use the INHIBIT command. If the user does not have command class of ALL, the user receives a warning message.

**Syntax**

The INHIBIT command syntax is as follows:

```
INHIBIT <type_of_request>
```

The following table describes the parameters and variables of the INHIBIT command.

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value                 | Description                                                                   |
|--------------------------|-----------------------|-------------------------------------------------------------------------------|
| type_of_request          | ON, OFF, QUERY, USERS | This parameter indicates the type of request to use with the INHIBIT command. |
|                          | ON                    | This variable activates the INHIBIT command.                                  |
|                          | OFF                   | This variable deactivates the INHIBIT command.                                |

**INHIBIT** (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value | Description                                                      |
|--------------------------|-------|------------------------------------------------------------------|
|                          | QUERY | This variable shows the INHIBIT status. The status is ON or OFF. |
|                          | USERS | This variable shows the users who activated the INHIBIT command. |

**Example**

The following table provides an example of the INHIBIT command.

**Command example**

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Command:</b>             | <b>&gt; INHIBIT OFF</b>                     |
| <b>Description of task:</b> | Deactivate the INHIBIT command.             |
| <b>MAP response:</b>        | Inhibit OFF                                 |
| <b>Explanation:</b>         | The system deactivates the INHIBIT command. |

**Responses**

The following table explains possible responses to the INHIBIT command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                                                                                      |        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>Command:</b>      | <b>&gt;INHIBIT ON</b>                                                                                                                                                                |        |
| <b>MAP response:</b> | This command can be used only by TAS staff!<br>are not TAS please enter NO immediately! Please confirm<br>("YES","Y","NO","N") Inhibit is already ON                                 | If you |
| <b>Meaning:</b>      | The command is active.                                                                                                                                                               |        |
| <b>Actions:</b>      | none                                                                                                                                                                                 |        |
| <b>Command:</b>      | <b>&gt;INHIBIT ON</b>                                                                                                                                                                |        |
| <b>MAP response:</b> | This command can be used only by TAS staff!<br>If you are not TAS please enter NO immediately!<br>Please confirm ("YES","Y","NO","N")<br>You are not authorized to activate INHIBIT! |        |
| <b>Meaning:</b>      | The user is not part of the TAS staff, or does not have a command class of ALL.                                                                                                      |        |

---

**INHIBIT** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| <b>Actions:</b>      | none                                                                           |
| <b>Command:</b>      | <b>&gt;INHIBIT OFF</b>                                                         |
| <b>MAP response:</b> | Inhibit is already OFF                                                         |
| <b>Meaning:</b>      | The command is already deactivated.                                            |
| <b>Actions:</b>      | none                                                                           |
| <b>Command:</b>      | <b>&gt;INHIBIT QUERY</b>                                                       |
| <b>MAP response:</b> | Inhibit is OFF                                                                 |
| <b>Meaning:</b>      | The INHIBIT command is deactivated.                                            |
| <b>Actions:</b>      | none                                                                           |
| <b>Command:</b>      | <b>&gt;INHIBIT USERS</b>                                                       |
| <b>MAP response:</b> | Nobody activated INHIBIT                                                       |
| <b>Meaning:</b>      | The INHIBIT command is not active at this time. There are no users to inhibit. |
| <b>Actions:</b>      | none                                                                           |
| <b>Command:</b>      | <b>&gt;INHIBIT USERS</b>                                                       |
| <b>MAP response:</b> | Recording Inhibit in use by ADMIN on device TTPVDU2                            |
| <b>Meaning:</b>      | User ADMIN has the INHIBIT command in use on TTPVDU2.                          |
| <b>Actions:</b>      | none                                                                           |

## NETPROT

---

### Type

The NETPROT command is used to QUERY, DISABLE, or ENABLE the Priority Class of Service (PCOS) level 2 protection. The status is QUERIED if no optional parameter is given.

The NETPROT command is a NONMENU command that is switched on or off by CI commands NETPROT on and NETPROT off.

### Target

The command target for the NETPROT command is SuperNode.

### Description

When NETPROT is on, only users with priority access can use the network.

- Users with lower priority are denied access to the network - see CAUTION.
- Originating calls on ISDN BRI and PRI/QSIG without priority going out on a non PRI-trunk are released with cause 42 (switching equipment congestion) in a Release message.
- Analog lines are covered by NETPROT. Originating calls on analog lines without priority going out on a non PRI-trunk are released.
- Incoming German ISUP V2 trunk calls without the priority parameter set to priority are released in the XPM with release cause #27 (destination out of order). Trunk calls that do not have a priority parameter (trunks other than German ISUP V2) are handled as incoming priority trunk calls (as are ISUP V2 calls with a priority parameter). However, after getting into the switch, they are handled as non-priority calls, which means trunk termination is denied (except for PRI).

The NETPROT feature is switched on and off using the CI command NETPROT on/off. If ESP is not on, NETPROT switches ESP on. The following message is shown: "ESP is on, essential lines are given priority service, NETPROT is on".

### Release history

#### EUR008

Feature AU2668 introduced the NETPROT command.

---

**NETPROT** (continued)

---

**Limitations and restrictions****CAUTION****Possible loss of service**

Use the NETPROT command only to permit emergency calls.

Setting NETPROT to ON denies service for accesses that do not have the Essential Line (ELN) option set. Calls originating from these accesses are not allowed to terminate on trunks.

Incoming trunk calls (which do not use the ETSI ISUP V2 protocol) are allowed to terminate only to a line on the switch. This type of call is not tandemed.

Incoming ETSI ISUP V2 calls that carry a priority indicator set to a priority call are permitted to terminate to a line or a trunk on the switch.

Incoming ETSI ISUP V2 calls that carry a priority indicator set to non-priority are released immediately.

The following limits and restrictions apply to the NETPROT command:

- Outgoing PRI trunks connected to the network are not affected by NETPROT.
- The priority parameter is only supported on ISUP V2 trunks. If NETPROT is on, an incoming call on a non ISUP V2 trunk will not be released. The call is not handled as a priority call.
- PCOS is not supported in ESA mode.
- The ELN option setting in table LTDEF supersedes the ELN option in table KSETLINE if they both apply to the same LTID. The ELN option for LTIDs in table KSETLINE was never supported.
- Centrex does not support interworking.

**Syntax**

An example of the NETPROT command syntax follows.

```
NETPROT - ENABLE, DISABLE, or QUERY Network Protection
 netprot [<Condition>]
```



**NETPROT** (continued)

---

The table that follows describes the parameters and variables of the NETPROT command.

| Parameters and variables | Value | Description                                           |
|--------------------------|-------|-------------------------------------------------------|
| Condition                | blank | displays the status of the network protection feature |
|                          | ON    | switches the network protection ON                    |
|                          | OFF   | switches the network protection OFF                   |

**Example**

The table that follows provides an example of the NETPROT command.

**Command example**

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | NETPROT                                                                                                  |
| <b>Description of task:</b> | Query, disable, or enable the Priority Class of Service level 2 protection                               |
| <b>MAP response:</b>        | NETPROT is currently switched on. ESP cannot be turned off until NETPROT is off.                         |
| <b>Explanation:</b>         | The operator attempted to switch Essential Service Protection (ESP) off while network protection was on. |

**Responses**

The tables that follow explain possible responses to the NETPROT command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | NETPROT                                                                                                  |
| <b>MAP response:</b> | NETPROT is currently switched on. ESP cannot be turned off until NETPROT is off.                         |
| <b>Meaning:</b>      | The operator attempted to switch Essential Service Protection (ESP) off while network protection was on. |
| <b>Actions:</b>      | Switch NETPROT off by issuing the command NETPROT OFF, before the command ESP OFF is re-issued.          |

## NETPROT (continued)

### MAP responses with associated meanings and actions

|                      |                                                                                                                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | NETPROT                                                                                                                                                                                                                                                                     |
| <b>MAP response:</b> | Only priority accesses will be given access to the network. Other accesses are denied to use the network. Refer to documentation of NETPROT command.<br>***WARNING*** ***WARNING***<br>THIS WILL CAUSE A CALL PROCESSING OUTAGE!<br>Please confirm ("YES", "Y", "NO", "N"): |
| <b>Meaning:</b>      | The operator entered the command NETPROT ON, switching on the network protection.                                                                                                                                                                                           |
| <b>Actions:</b>      | Confirm or abort the request to switch network protection on.                                                                                                                                                                                                               |

### MAP responses with associated meanings and actions

|                      |                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | NETPROT                                                                                           |
| <b>MAP response:</b> | NETPROT ALREADY IN SERVICE, RESENDING DATA TO XPMs AGAIN. Please confirm ("YES", "Y", "NO", "N"): |
| <b>Meaning:</b>      | The operator entered the command NETPROT ON when network protection was already on.               |
| <b>Actions:</b>      | Confirm or abort the request to resend the status information to the XPMs.                        |

### MAP responses with associated meanings and actions

|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | NETPROT                                                                                                  |
| <b>MAP response:</b> | NETPROT IS SWITCHED OFF. ALL ACCESSES CAN USE THE NETWORK AGAIN. Please confirm ("YES", "Y", "NO", "N"): |
| <b>Meaning:</b>      | The operator entered the command NETPROT OFF, switching off the network protection.                      |
| <b>Actions:</b>      | Confirm or abort the request to switch the network protection off.                                       |

### MAP responses with associated meanings and actions (Sheet 1 of 2)

|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | NETPROT                                                                                                  |
| <b>MAP response:</b> | NETPROT HAS ALREADY BEEN DISABLED, RESENDING DATA TO XPMs AGAIN. Please confirm ("YES", "Y", "NO", "N"): |

## NETPROT (end)

---

### MAP responses with associated meanings and actions (Sheet 2 of 2)

|                 |                                                                                       |
|-----------------|---------------------------------------------------------------------------------------|
| <b>Meaning:</b> | The operator entered the command NETPROT OFF when network protection was already off. |
| <b>Actions:</b> | Confirm or abort the request to resend the status information to the XPMs.            |

### MAP responses with associated meanings and actions

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| <b>Command:</b>      | NETPROT                                                          |
| <b>MAP response:</b> | NETPROT STARTED by xxxxxx from yyyy on 199x/xx/xx xx:xx:xx       |
| <b>Meaning:</b>      | The operator entered the NETPROT command without any parameters. |
| <b>Actions:</b>      | None                                                             |

---

**prccutil**

---

**Type**

The prccutil command is a nonmenu command.

**Target**

The command target for the prccutil command is BRISC.

**Description**

The prccutil command displays the number of active incoming and outgoing PRI calls over a trunk for a given CLLI or for all CLLIs.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**MMP15**

Feature A59022390 (ETSI PRI Incoming and Outgoing Call Control Enhancements) introduces the prccutil command.

**Limitations and restrictions**

The prccutil command has no limits or restrictions, and is not password-protected.

**Syntax**

The prccutil command syntax is as follows:

```
prccutil [<CLLI name> STRING]
```

**Example**

The following table provides an example of the prccutil command.

**Command example**

|                             |                                                                         |                   |                    |
|-----------------------------|-------------------------------------------------------------------------|-------------------|--------------------|
| <b>Command:</b>             | <b>&gt;prccutil</b>                                                     |                   |                    |
| <b>Description of task:</b> | Display the active incoming and outgoing PRI calls on all CLLIs.        |                   |                    |
| <b>MAP response:</b>        | CLLI<br>NAME                                                            | ACTIVE<br>INCALLS | ACTIVE<br>OUTCALLS |
|                             | PUBL230PRNWE                                                            | 3                 | 2                  |
|                             | PUB231PRUSE                                                             | 1                 | 9                  |
| <b>Explanation:</b>         | The active incoming and outgoing PRI calls are displayed for all CLLIs. |                   |                    |

---

**prccutil (end)**

---

**Responses**

The following table explains possible responses to the prccutil command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;prccutil PUBL230PRNWE</b>                                                                                  |
| <b>MAP response:</b> | CLLI     ACTIVE   ACTIVE<br>NAME     INCALLS   OUTCALLS<br>PUBL230PRNWE     3     2                               |
| <b>Meaning:</b>      | Display the active incoming and outgoing PRI calls on CLLI PUBL230PRNWE.                                          |
| <b>Actions:</b>      | There is no action required.                                                                                      |
| <b>Command:</b>      | <b>&gt;prccutil PUBL230PRNWE</b>                                                                                  |
| <b>MAP response:</b> | PUBL230PRNWE does not exist in table CLLI                                                                         |
| <b>Meaning:</b>      | PUBL230PRNWE is not a valid CLLI.                                                                                 |
| <b>Actions:</b>      | Enter a valid CLLI.                                                                                               |
| <b>Command:</b>      | <b>&gt;prccutil</b>                                                                                               |
| <b>MAP response:</b> | CLLI     ACTIVE   ACTIVE<br>NAME     INCALLS   OUTCALLS<br>PRI Call Control Feature is not active on any trunk    |
| <b>Meaning:</b>      | The PRI Call Control Feature is not active on any trunk.                                                          |
| <b>Actions:</b>      | There is no action required.                                                                                      |
| <b>Command:</b>      | <b>&gt;prccutil PUBL230PRNWE</b>                                                                                  |
| <b>MAP response:</b> | CLLI     ACTIVE   ACTIVE<br>NAME     INCALLS   OUTCALLS<br>PRI Call Control Feature is not active in PUBL230PRNWE |
| <b>Meaning:</b>      | The PRI Call Control Feature is not active on trunk PUBL230PRNWE.                                                 |
| <b>Actions:</b>      | There is no action required.                                                                                      |

---

**poll**

---

**Type**

The poll command is a non-menu command.

**Target**

The command target for the poll command is ALL.

**Description**

The poll command collects switch data. The switch data is used for the following: to engineer the office, determine what hardware/software changes are needed to keep the switch up to current standards, and to determine what usage fees to charge Nortel Networks customers.

The syntax for the command remains the same. This command may now create a series of POLLDATA files such as POLLDATA1, POLLDATA2, and POLLDATA3 as required. The number of files created is dependent on the amount of poll data at a site.

**Release history****TL09**

Feature SD0814 (SW Delivery Site Readiness) introduced the poll command.

**TL12**

Feature 59007577 Polling Scheduler) introduced changes to the poll command.

The syntax for the command remains the same. This command may now create a series of POLLDATA files such as POLLDATA1, POLLDATA2, and POLLDATA3 as required. The number of files created is dependent on the amount of poll data at a site.

**Limitations and restrictions**

The poll command has no limits or restrictions.

**Syntax**

The poll command syntax is as follows:

```

 <GROUP to Poll> {LONG, SHORT,
 USAGE,
 MEMCALC}
<inputdevice> DEVICE name
<option> {LISTSTEPS,
 SCREEN,
 COMPRESS <outputdevice> DEVICE name,
 UNCOMPRESS <outputdevice> DEVICE name}
```

**poll** (continued)

---

The following table describes the parameters and variables of the poll command.

**Command parameter and variable descriptions**

| Parameters and variables | Value                       | Description                         |
|--------------------------|-----------------------------|-------------------------------------|
| group                    | Long, Short, Usage, Memcalc | The valid groups to poll.           |
| inputdevice              | characters                  | A valid device.                     |
| compress Option          | characters                  | Compress, uncompress, or liststeps. |
| outputdevice             | characters                  | A valid device.                     |

**Example**

The following table provides an example of the poll command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                                                                                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > poll short sfdev liststeps                                                                                                                                                                                                                                                       |
| <b>Description of task:</b> | The liststeps options outputs to the screen. The liststeps option will print the group to be polled, and the base version for the poll utility. The liststeps option then scans the selected input device for the \$PI files and displays the file names with the version numbers. |

**poll** (continued)

**Command example (Sheet 2 of 2)**

**MAP response:**

```
>poll short sfdev liststeps

*** List POLL steps for CO: FCC1
*** Polling Group Type: SHORT Version: 10000
*** No user CIs bound into the POLL ***
*** Date: JAN 1, 1976 02:23:49


```

Listing POLL steps.

```

Display BCS Number.
Display IMAGENAME.
Display Log Message.
CPID counts.
PRSM List ACT Patches Turned On.
PRSM List Act Patches.
PRSM INFORMLIST.
Dynamic Memory Size Information.
Display PM Loads.
Display SOC Data.
Display CM/MS IDPROM.
Store All Usage.
Store All Summary.
```

**Explanation:**

This is only a sample of the output of the liststeps option. The individual steps are listed for the file names and the version numbers.



## **poll** (end)

---

### **Responses**

The following table explains possible responses to the <command\_name> command.

#### **MAP responses with associated meanings and actions**

|                      |   |
|----------------------|---|
| <b>Command:</b>      | > |
| <b>MAP response:</b> |   |
| <b>Meaning:</b>      |   |
| <b>Actions:</b>      |   |

There is no change to the <command\_name> command responses.

---

**pollschd**

---

**Type**

The pollschd command is a nonmenu command.

**Target**

The command target for the command is ALL.

**Description**

The pollschd command is used to interface with the poll scheduler. The pollschd command schedules and monitors the collection of switch data by the poll command. The scheduling and monitoring allows Nortel Networks to have automatic weekly pollings of the DMS.

**Release history****TL12**

*Feature 59007577 (Polling Scheduler) introduced the pollschd command.*

**Limitations and restrictions**

The pollschd command has no limits or restrictions.

**Syntax**

The pollschd command syntax is as follows:

```
pollschd This command allows the automatic scheduling of the
 POLL command.
 The scheduling is based on running a POLL once a week.

START - reschedules the next POLL based on the last defined
 time.
 This can also be used to restart the POLL after a CANCEL.
QSCHD - displays the next time the POLL is scheduled. It also
 shows the weekly time the POLL will run.
DEFINE - defines when and how the weekly POLL will run.
 Parameters:
 o device name to send the POLL output to
 o wakeup time (Hour)
 o wakeup time (Minute)
 o wakeup day (in weekly calendar)
 o poll type - LONG, SHORT, USAGE, MEMCALC
 o compression option - either compress or uncompress
CANCEL - cancels the next scheduled POLL.
STOP - this will stop the currently running POLL by forcing
 out the
 disconnected POLL user currently logged in.
HIST - provides a history of all scheduler commands issued with
 date/time and the userid of who issued the command.
HRESET - clears the POLL history buffer.

<OPERATION> {START,
```

**pollschd** (continued)

---

```
QSCHD,
DEFINE <Device name> DEVICE name
 <Hour> {0 TO 23}
 <Minute> {0 TO 59}
 <Wkday> {MON,
 TUE,
 WED,
 THU,
 FRI,
 SAT,
 SUN}
 <Poll type> {LONG,
 SHORT,
 USAGE,
 MEMCALC}
 <Compress option> {COMPRESS,
 UNCOMPRESS},
CANCEL,
STOP,
HIST,
HRESET}
```

The following table describes the parameters and variables of the pollschd command.

**Command parameter and variable descriptions**

| Parameters and variables | Value                                                                  | Description                                            |
|--------------------------|------------------------------------------------------------------------|--------------------------------------------------------|
| start                    | n/a                                                                    | start the poll based on the user defined variables     |
| qschd                    | n/a                                                                    | display next scheduled poll and user defined variables |
| define                   | device name<br>hour<br>minute<br>wkday<br>poll type<br>compress option | allow the user to set the poll variables               |
| cancel                   |                                                                        | cancel future automatic pollings                       |
| stop                     |                                                                        | stop a running poll                                    |
| hist                     |                                                                        | print out the last 100 commands executed               |
| reset                    |                                                                        | clear out the history buffer                           |

**pollschd** (continued)

**Example**

The following table provides an example of the pollschd command.

**Command example**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > pollschd hist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description of task:</b> | print out the last 100 commands executed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>MAP response:</b>        | <pre>pollschd hist ---- Start of POLL history buffer 2000/01/01 15:17:40.371 SAT. ----        DATE   ACTION      DATA      USER       ----- 2000/01/01 START  scheduled for 2000/01/04 11:21  by POLL_USER 2000/01/01 START  scheduled for 2000/01/04 11:21  by POLL_USER 2000/01/01 START  scheduled for 2000/01/04 11:21  by POLL_USER 2000/01/02 START  scheduled for 2000/01/04 11:21  by POLL_USER 2000/01/02 START  scheduled for 2000/01/04 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/22 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/22 11:21  by POLL_USER 1999/06/21 START  scheduled for 1999/06/22 11:21  by POLL_USER 1999/06/21 START  scheduled for 1999/06/22 11:21  by POLL_USER 1999/06/21 START  scheduled for 1999/06/22 11:21  by POLL_USER 1999/06/21 START  scheduled for 1999/06/22 11:21  by POLL_USER 1999/06/21 START  scheduled for 1999/06/22 11:21  by POLL_USER 1999/06/21 START  scheduled for 1999/06/22 11:21  by POLL_USER 1999/06/21 START  scheduled for 1999/06/22 11:21  by POLL_USER  ---- End of POLL history buffer display ----</pre> |
| <b>Explanation:</b>         | Displays the last 100 commands issued.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## pollschd (continued)

### Responses

The following table explains possible responses to the pollschd command.

#### MAP responses with associated meanings and actions (Sheet 1 of 2)

|                      |                                                                                                                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | >pollschd start                                                                                                                                                                             |
| <b>MAP response:</b> | The POLL is being reschedule from 2000/01/04 11:21:00.535 TUE. to 2000/01/04 11:21:00.248 TUE. Do you wish to continue?<br><br>Please confirm ("YES", "Y", "NO", or "N"):                   |
| <b>Meaning:</b>      | Start the poll based on the user defined variables.                                                                                                                                         |
| <b>Actions:</b>      | The user must confirm whether to continue.                                                                                                                                                  |
| <b>Command:</b>      | >>pollschd qschd                                                                                                                                                                            |
| <b>MAP response:</b> | --- Poll Schedule as of: 1999/12/31 11:18:10.661 FRI. ---<br><br>Device      Hr Min Day to Run POLL TYPE Compress Scheduled Date<br>-----    --<br><br>NTDEV      11 21 TUE LONG Y No Sched |
| <b>Meaning:</b>      | Display next scheduled poll and user defined variables.                                                                                                                                     |
| <b>Actions:</b>      |                                                                                                                                                                                             |
| <b>Command:</b>      | >>pollschd define ntdev 12 01 wed memcalc uncompress                                                                                                                                        |
| <b>MAP response:</b> | Next par is: <Device name> DEVICE name<br><br>Enter: <Device name> <Hour> <Minute> <Wkday> <Poll type> <Compress option>                                                                    |
| <b>Meaning:</b>      | Allows the user to set the poll variables.                                                                                                                                                  |
| <b>Actions:</b>      | User defines the device to store the poll file, the hour, the minute, the day, the type of poll and whether to compress the file. The user must enter whether to continue or not.           |
| <b>Command:</b>      | >>pollschd cancel                                                                                                                                                                           |
| <b>MAP response:</b> | Scheduled POLL was cancelled.                                                                                                                                                               |
| <b>Meaning:</b>      | Cancel future automatic pollings.                                                                                                                                                           |
| <b>Actions:</b>      | The user must enter the start command for another poll to be scheduled.                                                                                                                     |
| <b>Command:</b>      | >pollschd stop                                                                                                                                                                              |

**pollschd (end)****MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | The POLL is not running.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Meaning:</b>      | Stops a running poll.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Actions:</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Command:</b>      | >>pollschd hist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b> | <pre> ---- Start of POLL history buffer 1999/12/31 10:39:49.496 FRI. ----        DATE      ACTION      DATA      USER       ----- 1999/12/31 CANCEL All scheduler polls cancelled  by TEAM3 1999/12/31 START  scheduled for 2000/01/04 11:21  by POLL_USER 1999/12/31 START  scheduled for 2000/01/04 11:21  by TEAM3 1999/12/31 START  scheduled for 2000/01/04 11:21  by POLL_USER 2000/01/02 START  scheduled for 2000/01/04 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/29 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/29 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/29 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/29 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/29 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/29 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/29 11:21  by POLL_USER 1999/06/22 START  scheduled for 1999/06/29 11:21  by POLL_USER  ---- End of POLL history buffer display ---- </pre> |
| <b>Meaning:</b>      | Prints out the last 100 commands executed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Actions:</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Command:</b>      | >>pollschd hreset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MAP response:</b> | Command History Buffer is cleared.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Meaning:</b>      | Clears out the history buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Actions:</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## qcm

---

### Type

The qcm command is a nonmenu command.

### Target

The command target for the qcm command is ALL.

### Description

Use the qcm command to display the contents of incoming and outgoing call memory blocks associated with a specified line.

The qcm command is a query command. Query commands often are used in conjunction with service order (SO) commands to determine status and information.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA010

Feature AF7512 changes the qcm command to support duplicate NXX. The Duplicate NXX Support feature allows the switch to distinguish between ambiguous directory numbers (DNs). If you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

### Limitations and restrictions

The following limits and restrictions apply to the qcm command:

- The qcm command can be entered using prompt entry mode or using no-prompt entry mode.
- You must query a LEN when a DN specification does not translate into a LEN.
- If you enter an ambiguous DN, the system displays the following warning and terminates the command:

```
This local DN is not unique.
Please use the full national DN.
```

### Syntax

There is no change to the qcm command syntax.

**qcm** (continued)

The following table describes the parameters and variables of the qcm command.

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dn_num                   |       | This variable is a seven-digit directory number (DN). Use this variable for simple DNs including DN_S_LINE (where the DN belongs to a single line in Table LENLINES) and DN_BNN (where the DN is a bridged night number).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| f                        |       | This default parameter requestes a formatted display. Either omit this entry or enter the f character to produce a formatted display.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| len_num                  |       | <p>This variable is a seven-digit line equipment number (LEN), where the first two digits indicate the frame number, the third digit indicates the bay number, the fourth and fifth digits indicate the drawer number, and the last two digits indicate the line number. Use the len_num variable for the following DNs:</p> <p>DN_P_LIN (where the DN belongs to a party line in Table LENLINES)</p> <p>DN_P_FREE (where the DN is a free party on a working line)</p> <p>DN_H_MEM (where the DN is a multiline (MLH) and distributed line hunt (DLH) pilot)</p> <p>DN_H_PILOT (where the DN is an MLH and DLH member)</p> <p>DN_DNH_MEM (where the number is a directory number hunt (DNH) member)</p> <p>DN_DNH_PILOT (where the number is a DNH pilot)</p> <p>DN_INTERCEPT (where the DN goes to some form of treatment)</p> <p>DN_OTHER (where the DN is none of the above, not available, but not invalid)</p> <p>DN_BNN_PILOT (where the DN is a bridged night number (BNN) hunt group pilot)</p> <p>DN_BNN_MEM (where the DN is a BNN hunt group member)</p> |



**qcm** (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| len_num (continued)      |       | DN_MADN (where the DN is a multiple access directory number (MADN) from a single call arrangement (SCA), multiple call arrangement (MCA), or extension bridging (EXB) MADN group)<br>DN_MTC (where the DN belongs to a mobile phone)<br>DN_TEEN_LINE (where the DN is a teen service DN line option which allows a primary DN and several secondary DNs to be associated with a particular LEN)<br>DN_SYN (where the DN is a synonym DN)<br>DN_TWIN (where the DN is a Kapshen and Schrack - Austria (K&S) twin DN) |
| h                        |       | This parameter provides the same dta that displays when the f parameter is selected. In addition, the hexadecimal option provides a display of the current contents in system memory (a "physical view") and the data that the DMS requires for table control (the "logical view").                                                                                                                                                                                                                                 |

**Example**

The following table provides an example of the qcm command.

**Command example (Sheet 1 of 2)**

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| <b>Command:</b>             | > qcm 6216062 f                                 |
| <b>Description of task:</b> | Query a specified DN and display formatted data |

**qcm** (continued)**Command example (Sheet 2 of 2)**

|                                      |                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b>                 | CALL MEMORY DISPLAY FOR DN: 6216062 LEN:<br>HOST 00 0 12 01<br>Incoming Call Memory -<br>Time of call: 1989/06/02 09:52:50.277 FRI.<br>Calling DN: 6136216061<br>Network: PUBLIC<br>Originating Address Type: 003 (UNIQUE)<br>Interworking Encountered: NO<br>Originating DN PRI: UNSUPPRESSED<br>Long Distance Call: NO                 |
| <b>MAP response<br/>(continued):</b> | Intraoffice call: YES<br>Group Intercom: NO<br>Call Waiting: NO<br>Display: ALLOWED<br>Outgoing Call Memory -<br>Called DN: 6216063<br>Prefix_Count: 0<br>DN_Unusable: NO<br>Intraoffice call: YES<br>Destination DN PRI: UNSUPPRESSED<br>Call Forwarded: NO<br>Group Intercom: NO<br>CNDB Features: CNDB_NOT_ACTIVE<br>Display: ALLOWED |
| <b>Explanation:</b>                  | This command queries and displays the formatted contents of incoming and outgoing call memory for DN 62160621                                                                                                                                                                                                                            |

**qcm** (continued)

---

**Responses**

The following table explains possible responses to the qcm command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qcm</b>                                                                                              |
| <b>MAP response:</b> | *** BAD DATA ***                                                                                            |
| <b>Meaning:</b>      | If undecipherable data exists in a field, the field is replaced with the above response.                    |
| <b>Actions:</b>      | Reissue the command                                                                                         |
| <b>Command:</b>      | <b>&gt;qcm</b>                                                                                              |
| <b>MAP response:</b> | Calling DN: UNAVAILABLE                                                                                     |
| <b>Meaning:</b>      | If neither a DN nor a LEN is available, the field is replaced with this message.                            |
| <b>Actions:</b>      | None                                                                                                        |
| <b>Command:</b>      | <b>&gt;qcm</b>                                                                                              |
| <b>MAP response:</b> | Calling LEN: <line equipment number>                                                                        |
| <b>Meaning:</b>      | If the Incoming Call Memory Bank (ICMB) contains a LEN, the calling DN field is replaced with this message. |
| <b>Actions:</b>      | None                                                                                                        |
| <b>Command:</b>      | <b>&gt;qcm</b>                                                                                              |
| <b>MAP response:</b> | DN <directory number> is an UNASSIGNED DN                                                                   |
| <b>Meaning:</b>      | A DN with a type of DN_FREE was entered                                                                     |
| <b>Actions:</b>      | Enter an active DN                                                                                          |
| <b>Command:</b>      | <b>&gt;qcm</b>                                                                                              |
| <b>MAP response:</b> | DN <directory number> is NOT VALID for this office                                                          |
| <b>Meaning:</b>      | A DN with a type of DN_INVALID was entered. This DN is undefined for this office.                           |
| <b>Actions:</b>      | Enter a DN assigned for this office.                                                                        |
| <b>Command:</b>      | <b>&gt;qcm</b>                                                                                              |
| <b>MAP response:</b> | Formatted or HEX (F H) : F                                                                                  |

**qcm** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The system prompts for the f parameter or h parameter.                                                                                                      |
| <b>Actions:</b>      | Enter the f parameter or h parameter or select the default parameter by pressing the carriage return key. Enter the abort command to terminate the command. |
| <b>Command:</b>      | <b>&gt;qcm</b>                                                                                                                                              |
| <b>MAP response:</b> | LEN <line equipment number> is NOT VALID for this OFFICE<br>or<br>QCM ERROR: CANNOT GENERATE A CPID FOR LEN <LEN>                                           |
| <b>Meaning:</b>      | The parameter is incorrect for the specified reason                                                                                                         |
| <b>Actions:</b>      | Reissue the command using the correct DN or LEN.                                                                                                            |

## qcust

---

### Type

The qcust command is a nonmenu command.

### Target

The command target for the qcust command is ALL.

### Description

Use the qcust command to retrieve information about all the lines associated with one or more customer group(s). The qcust command takes up to five customer groups as parameters and traverses Table BNMCUST to upload line data information about the specified customer groups. Table BNMCUST contains all the customer groups associated with customer names. The qcust command can provide initialization datafill for an off-switch database and provide synchronization between the DMS tables and the off-switch database.

The qcust command also can accept a line equipment number (LEN) or logical terminal identifier (LTID) if the data on a single line is required.

The qcust all command string retrieves all line data associated with each customer group on the switch.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA010

Feature AF7512 changes the qcust command to support duplicate NXX. The Duplicate NXX Support feature allows the switch to distinguish between ambiguous directory numbers (DNs). If you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

### Limitations and restrictions

The following limits and restrictions apply to the qcust command:

- There are no input prompts for this query command.
- qcust does not retrieve information on plain ordinary telephone service (POTS) lines.
- DN is not a valid parameter for the qcust command.

### Syntax

There is no change to the qcust command syntax.

**qcust** (continued)

The following table describes the parameters and variables of the qcust command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                                                                                                   |
|--------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| all                      |       | This parameter retrieves information about all the lines associated with each customer group.                                                 |
| custgrp                  |       | This variable specifies 1-5 customer group(s).                                                                                                |
| custname                 |       | This variable specifies the customer name.                                                                                                    |
| done                     |       | This parameter specifies that the changes have all been collected by another command and that the DMS switch may erase the changed line data. |
| incr                     |       | This parameter collects all the line data information for the requested customer and outputs it to the requestor. len                         |
| initial                  |       | This parameter collects all the line data information for the requested customer and outputs it to the requestor.                             |
| len                      |       | This variable specifies the line equipment number or logical terminal identifier.                                                             |
| ownedby                  |       | This parameter collects all the line data information for the requested customer and outputs it to the requestor.                             |

**Example**

The following table provides an example of the qcust command.

**Command example (Sheet 1 of 4)**

|                             |                        |
|-----------------------------|------------------------|
| <b>Command:</b>             | <b>&gt;qcust ntrtp</b> |
| <b>Description of task:</b> | Query group NTRTP.     |

**qcust** (continued)

---

**Command example (Sheet 2 of 4)**

```
MAP response: 0 34 Y 4 Y N
99
18 ISDN
18 FUNKBD
18 FUNKY
99
19 PUBLIC 0
99
1 HOST 01 1 01 19 IBN STDLN 6X17AA N
2 8477012 NTRTP 0 0 613
9 DGT $
99
1 HOST 01 1 08 31 IBN STDLN 6X17AA N
2 8477013 NTRTP 0 0 613
9 DGT $
99
1 HOST 01 1 10 22 IBN STDLN 6X17AA N
2 8477015 NTRTP 0 0 613
99
1 HOST 01 1 11 03 IBN STDLN 6X17AA N
2 8477016 NTRTP 0 0 613
9 CWT 3WC RAG DGT $
99
1 HOST 02 0 10 20 IBN STDLN 6X17AA N
2 8477007 NTRTP 0 0 613
9 DGT $
99
1 HOST 01 0 00 28 PSET PPHON 6X21AA N
4 N $ N $
5 1 8477100 NTRTP 0 0 613 Y
9 CWT 3WC RAG CPU $
10 3 RAG
10 4 3WC
10 5 CWT Y Y N $
10 7 CPU HOST 01 0 00 28 $ 0
99
1 HOST 01 0 19 11 DATA NPDGP 6X71AA N
4 $
13 E FAILED TO GET DATA PROFILE FOR LEN HOST 01 0
19 11
```

**qcust** (continued)**Command example (Sheet 3 of 4)**

```

MAP response 5 1 8477200 NTRTP 0 0 613 Y
(continued): 9 SMDR $
 99
 1 HOST 01 1 18 26 PSET PPHON 6X21AA N
 4 N $ N $
 5 1 8477130 NTRTP 0 0 613 Y
 9 CWT $
 10 5 CWT Y Y N $
 10 8 CXR CTALL N STD
 99
 1 HOST 02 1 11 08 DATA NPDGP 6X71AA N
 4 $
 13 E FAILED TO GET DATA PROFILE FOR LEN HOST 02 1
 11 08
 5 1 7726210 NTRTP 0 0 613 Y
 9 SMDR $
 99
 1 HOST 03 0 00 04 PSET PPHON 6X21AA N
 4 N $ N $
 5 1 6212000 NTRTP 0 0 613 Y
 99
 1 HOST 03 0 14 04 PSET PPHON 6X21AA N
 4 N $ N $
 5 1 6212001 NTRTP 0 0 613 Y
 99
 1 HOST 03 1 01 04 PSET PPHON 6X21AA N
 4 N $ N $
 5 1 6212002 NTRTP 0 0 613 Y
 99
 1 HOST 03 1 15 04 PSET PPHON 6X21AA N
 4 N $ N $
 5 1 6212003 NTRTP 0 0 613 Y
 99
 1 HOST 04 0 06 04 PSET PPHON 6X21AA N
 4 N $ N $
 5 1 6212004 NTRTP 0 0 613 Y
 99
 1 HOST 04 0 09 04 PSET PPHON 6X21AA N
 4 N $ N $
 5 1 6212005 NTRTP 0 0 613 Y
 99
 1 HOST 04 1 02 04 PSET PPHON 6X21AA N
 4 N $ N $ 5 1 6212006 NTRTP 0 0 613 Y
 99
 1 HOST 04 1 13 04 PSET PPHON 6X21AA N

```



**qcust** (end)**Command example (Sheet 4 of 4)**

|                                      |                                                                                                                                                                                                                                                                                                              |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response<br/>(continued):</b> | <pre> 4 N \$ N \$ 5 1 6212007 NTRTP 0 0 613 Y 99 1 LCMR 05 1 10 16 PSET SPPHN 6X21AC N 4 N \$ N \$ 5 1 8471002 NTRTP 0 0 613 Y 99 1 LCMR 06 0 19 04 PSET STDLN 6X21AC N 4 N \$ N \$ 5 1 8471003 NTRTP 0 0 613 Y 99 1 LCMR 06 1 00 24 PSET SPPHN 6X21AC N 4 N \$ N \$ 5 1 8471004 NTRTP 0 0 613 Y 99 @ </pre> |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Explanation:</b> | This command queries group NTRTP. |
|---------------------|-----------------------------------|

**Responses**

The following table explains possible responses to the qcust command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qcust</b>                                                                                                         |
| <b>MAP response:</b> | <pre> *** ERROR *** &lt; &gt;   TYPE OF TYPE OF QCUST IS TYPE_OF_QCUST PROMPTING DISABLED 13 F INVALID PARAMETERS </pre> |
| <b>Meaning:</b>      | You entered more than five customer groups.                                                                              |
| <b>Actions:</b>      | Reenter the command or abort.                                                                                            |
| <b>Command:</b>      | <b>&gt;qcust</b>                                                                                                         |
| <b>MAP response:</b> | <pre> MISSING PARAMETER 13 F INVALID PARAMETERS </pre>                                                                   |
| <b>Meaning:</b>      | You left out the \$ (terminator of custgroups).                                                                          |
| <b>Actions:</b>      | Reenter the command or abort.                                                                                            |

**qdnwrk**

---

**Type**

The qdnwrk command is a nonmenu command.

**Target**

The command target for the qdnwrk command is ALL.

**Description**

Use the qdnwrk command to produce a detailed or summary printout of software assigned to a specified range of directory numbers (DN) or all DNs, including DNs with line class code (LCC) type M5212.

The qdnwrk command is a query command. Query commands are often used in conjunction with service order commands to determine status information.

**Release history****MMP15**

Feature 59024118 added the RESL\_CATEGORY parameter. This parameter applies only if option RESL is entered.

**NA010**

Feature AF7512 changes the qdnwrk command to support duplicate NXX. The Duplicate NXX Support feature allows the switch to distinguish between ambiguous DNs. If you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

**Limitations and restrictions**

The following limits and restrictions apply to the qdnwrk command:

- The system may require 30 minutes or more to produce a detailed printout for a large range of DNs.
- You can enter the qdnwrk command at any level of maintenance, using either prompt or no-prompt entry mode.
- If you enter an ambiguous DN, the system displays the following warning and terminates the command:

This local DN is not unique.  
Please use the full national DN.

**qdnwrk** (continued)

---

**Syntax**

The <command\_name> command syntax is as follows:

```
qdnwrk <all or r start_dn end_dn>
 <nlcc or lcc> <$ or options $>
 <RESL_CATEGORY> <s or d>
```

The following table describes the parameters and variables of the qdnwrk command.

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value                 | Description                                                                                                                                              |
|--------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| all                      |                       | This default parameter queries all DNs rather than a specified range of DNs. Either omit this entry, or enter the "all" parameter to query all DNs.      |
| r                        |                       | This parameter queries a range of DNs.                                                                                                                   |
| start_dn                 | DN                    | This variable specifies the first seven or ten-digit DN in a range of DNs to query.                                                                      |
| end_dn                   | DN                    | This variable specifies the last seven or ten-digit DN in a range of DNs to query.                                                                       |
| nlcc                     |                       | This default parameter searches all LCC types rather than a specified LCC. Either omit this entry, or enter the "all" parameter to search all LCC types. |
| lcc                      | LCC of the DN         | This variable specifies the LCC of the DN.                                                                                                               |
| options                  | list of options or \$ | Enter the options associated with the DN, or \$ for no options. End the list of options with a \$.                                                       |
| RESL_CATEGORY            | RSL0 to RSL19 or ALL  | If option RESL is entered, the system prompts for the RESL_CATEGORY. Enter any restricted line category (RSL0 to RSL19) or ALL.                          |

**qdnwrk** (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| s                        |       | This parameter requests a summary printout which provides the total count of the DNs within the specified range, the LCC, and options.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| d                        |       | <p>This parameter requests a detailed printout which provides the same information as the summary printout, with the following additional information:</p> <ul style="list-style-type: none"> <li>• DN being queried</li> <li>• DN type</li> <li>• line equipment number (LEN) associated with the DN</li> <li>• LCC</li> <li>• signaling type</li> <li>• line attribute index</li> <li>• line inventory data</li> <li>• options</li> </ul> <p><b>Note:</b> The system may require 30 minutes or more to produce a detailed printout for a large range of DNs.</p> |

**Example**

The following table provides an example of the qdnwrk command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;qdnwrk r 7227000 7227010 m5212 3wc \$ \$ d</b><br><b>where:</b><br>7227000 specifies the first seven-digit DN in a range of DNs<br>7227010 specifies the last seven-digit DN in a range of DNs<br>m5212 specifies the LCC<br>3wc specifies the option |
| <b>Description of task:</b> | Produce a detailed report of software assigned to a specified range of DNs using no-prompt entry mode.                                                                                                                                                       |

---

**qdnwrk** (end)

---

**Command example (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | REPORT ON WORKING DIRECTORY NUMBERS<br>FROM 7227000 TO 7227010<br>LCC M5212 OPTION 3WC<br>-----<br>DN: 7227010<br>TYPE: SINGLE PARTY LINE<br>SNPA: 613 SIG: N/A LNATTIDX: N/A<br>LINE EQUIPMENT NUMBER: HOST 00 0 10 09<br>LINE CLASS CODE: M5212<br>IBN TYPE: SL N<br>CUSTGRP:COMKODAK SUBGRP: 0 NCOS: 0 RING: Y<br>CARDCODE:6X21AB GND:N PADGRP:PPHON BNV:NL MNO:Y<br>PM NODE NUMBER : 30<br>PM TERMINAL NUMBER : 330<br>OPTIONS: 3WC GIC FRED 1111 N Y<br>CWT Y N N 1 2 3<br><br>TOTAL COUNT OF WORKING DN FROM 7227000 TO 7227010: 1 |
| <b>Explanation:</b>  | This command produces a report of software assigned to DNs between 7227000 and 7227010 for a DMS-100 office with an M5212 LCC.                                                                                                                                                                                                                                                                                                                                                                                                           |

**Responses**

There is no change to the qdnwrk command responses.

**Additional information**

Refer to the description of the QDNWRK query command in the SERVORD Reference Manual.

---

**qgrp**

---

**Type**

The qgrp command is a nonmenu command.

**Target**

The command target for the qgrp command is ALL.

**Description**

The qgrp command is a query command used to print all members of a specified group type.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**SN06**

Feature A59036868 added the BLF option to the QGRP command.

**NA009**

Feature AF7345 changed the qgrp command to support duplicate NXX. Prior to the introduction of the Duplicate NXX Support feature, the switch could not distinguish between ambiguous DN's. With this feature, if you enter a seven-digit directory number (DN) and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

**Limitations and restrictions**

The following limits and restrictions apply to the qgrp command:

- The qgrp command can be entered either using prompt entry mode or using no-prompt entry mode.
- The key parameter only is entered with a LEN.
- With the exception of the qgrp ksh command string, where only a LEN is required, a key is prompted for when the specified LEN is a Meridian Business Set (MBS).
- If a value of 1 or the default value is entered along with the LEN of the monitored set, the system lists the LEN and key of each station that can query the status of that monitored set.
- If a key other than 1 is entered with the LEN of the monitoring set, the system lists the LEN of the monitored set and the LEN and key of each remaining station in the group.

**qgrp** (continued)

---

- If a detailed printout is requested for a large range of DNs, 30 minutes or more of processing time may be required before a printout is produced.
- If you enter an ambiguous DN, the system displays the following warning and terminates the command:

This Local DN is not Unique. Please use the Full National DN.

**Syntax**

There is no change to the qgrp command syntax.

The following table describes the parameters and variables of the qgrp command.

(Sheet 1 of 3)

| Parameters and variables | Description                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>1</i>                 | Omitting this entry forces the system to default to 1 for the key.                                                                                                                                                                                                                                 |
| <i>blf</i>               | This parameter provides a list of LENS which are Busy Lamp Field (BLF)/Set-based Lamp Field (SBLF) monitoring the input DN. It also displays the corresponding key and type of monitoring (i.e. whether it is set_monitor or group_monitor)                                                        |
| <i>blfdn</i>             | the Directory Number (DN) for which all LENS monitoring this DN via BLF/SBLF needs to be listed                                                                                                                                                                                                    |
| <i>brief</i>             | This parameter displays only the characteristics and options of the feature group.                                                                                                                                                                                                                 |
| <i>cpu</i>               | This parameter displays the members of a call pickup (CPU) group. The CPU feature allows a station to answer incoming calls to another station in the same pickup group. Only a group number can be entered with this parameter when the group number feature control is set to Y in Table OFCOPT. |
| <i>dn</i>                | This variable specifies the directory number (DN), which is a seven-digit number that designates a subscriber's station within one numbering plan area (NPA). The DN is usually a three-digit Central Office code followed by a four-digit station number.                                         |
| <i>ftgrp</i>             | This parameter displays the members of a feature group. The ftgrp feature allows the operating company to package residential and business line features into logical groups that can be assigned to individual lines using Service Order System) (SERVORD) directory commands.                    |
| <i>ftgrp_name</i>        | This variable specifies the name of a feature group.                                                                                                                                                                                                                                               |
| <i>full</i>              | This parameter displays a list of all the lines assigned to the feature group.                                                                                                                                                                                                                     |

**qgrp** (continued)

(Sheet 2 of 3)

| Parameters and variables | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>gic</i>               | This parameter displays the members of a Group Intercom (GIC) group. The GIC feature enables a customer to terminate on a member of a predesignated group by using abbreviated dialing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <i>grp_num</i>           | This variable specifies the number of the group type. The valid entry range for the CPU group is 1–32767. the valid entry range for the SCU group is 1–30000 on the NT40 and 1–32767 on the Encore. The valid entry range for the hunt group number is 1–8191. All the hunt group types come from the same pool of numbers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <i>hnt</i>               | <p>This parameter displays the members of a hunt group. The hunt group types are bridged night number (BNN), directory number hunt (DNH), distributed line hunt (DLH), and multiline hunt (MLH).</p> <p>The BNN feature permits a different number to be advertised for specified hours without a third wire. If the group number feature control is set to Y in Table OFCOPT, a BNN only can be queried by specifying its group number.</p> <p>The DNH feature permits calls to a busy line to be rerouted within a hunt group in the order of their DNs, beginning with the DN dialed.</p> <p>The DLH feature is a hunting arrangement consisting of lines divided into groups. The hunt is sequential over all groups until a line is selected inn an available group.</p> <p>The MLH feature permits calls to a busy line to be routed to other specified lines without assigning a DN to each line.</p> |
| <i>key</i>               | This variable specifies the key on the set that is to be monitored. This variable only can be entered after a line equipment number (LEN). The valid entry range is 1–69. The key parameter only is entered with a LEN. With the exception of the qgrp ksh command string, where only a LEN is required, a key is prompted for when the specified LEN is a Meridian business Set (MBS). If a value of 1 or the default value is entered along with the LEN of the monitored set, the system lists the LEN and key of each station that can query the status of that monitored set. If a key other than 1 is entered with the LEN of the monitoring set, the system lists the LEN of the monitored set and the LEN and key of each remaining station in the group.                                                                                                                                            |
| <i>ksh</i>               | This parameter displays the members of a key short hunt (KSH) group. The KSH feature permits incoming calls to hunt over a set of DN appearances in search of an idle DN on which to terminate. The set either can be standard DNs or Multiple Appearance Directory Numbers (MADNs) and can be all or the set can be a subset of the DNs on an MBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



**qgrp** (continued)

(Sheet 3 of 3)

| Parameters and variables | Description                                                                                                                                                                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>len</i>               | This variable specifies the LEN that identifies the site, frame, unit, drawer, and circuit of the MBS, Integrated Business Network (IBN) line, attendant console, or data unit (DU).                                                                                                                                                 |
| <i>mdn</i>               | This parameter displays the members of a MADN group. A MADN is a DN assigned to more than one MBS.                                                                                                                                                                                                                                   |
| <i>qbs</i>               | This parameter displays the members of a query busy station (QBS) group. The QBS feature allows a group of business set users to monitor the busy or idle status of a specific set and to be alerted when that set becomes idle.                                                                                                     |
| <i>resscu</i>            | This parameter displays the members of a Residential Enhanced Services (RES) speed call user (SCU) group. An SCU is a user with access to any of several speed calling features that allow him to dial frequently used numbers with two- or three-digit codes.                                                                       |
| <i>scu</i>               | This parameter displays the members of an SCU group. A member of an SCU group is a user with access to another subscriber's speed calling list to dial frequently used numbers with two- or three-digit codes. Only a group number can be entered with this parameter when group number feature control is set to Y in Table OFCOPT. |

**Example**

The following table provides an example of the qgrp command.

**Command example (Sheet 1 of 2)**

|                             |                                                            |
|-----------------------------|------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;qgrp ftrgrp 0 0 3 16 full</b><br><i>where</i>       |
|                             | 0 0 3 16 specifies the line equipment number               |
| <b>Description of task:</b> | Display full information on a feature group using the LEN. |

## qgrp (continued)

### Command example (Sheet 2 of 2)

**MAP response:**

FEATURE GROUP -----

NAME: IBNBASIC02 CLASS: IBN

OWNERSHIP: PUBLIC

OPTIONS:

NONE

FTRGRP OPTIONS:

3WC RAG PRK LNR MSB SCS CNF C18 MWT STD Y N

LENS: HOST 00 0 00 29 7245219

HOST 00 0 03 16 7268654

HOST 00 0 03 18 8649034

HOST 00 0 19 25 6557826

HOST 00 1 02 08 4297281

HOST 00 1 04 11 2257886

HOST 00 1 05 31 7262817

HOST 01 0 08 02 4292183

The number of lines assigned the FEATURE group is 8.

**Explanation:**

This command displays information for the feature group identified by the associated LEN. The full parameter displays a list of all the lines assigned to the feature group.

**Command:**

**>qgrp blf 9097502531**

9097502531 specifies the DN

**Description of task:**

Display the list of LENS which are BLF/SBLF monitoring the input DN.

**MAP response:**

-----  
THE LENS MONITORING THE INPUT DN VIA BLF ARE:

| LEN             | KEY | TYPE          |
|-----------------|-----|---------------|
| .....           |     |               |
| HOST 01 1 19 25 | 5   | SET_MONITOR   |
| HOST 01 1 19 31 | 6   | GROUP_MONITOR |
| .....           |     |               |

**Explanation:**

This command displays information for the LENS that are BLF/SBLF monitoring the input DN. The command displays a list of all the LENS, as well as the key and type for each LEN.

**qgrp** (continued)**Responses**

The following table explains possible responses to the qgrp command.

**MAP responses with associated meanings and actions (Sheet 1 of 4)**

|                      |                                                                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | CANNOT QUERY BY BNN DN.                                                                                                                                                                                                                         |
| <b>Meaning:</b>      | A BNN hunt group cannot be queried using a DN. The command aborts.                                                                                                                                                                              |
| <b>Actions:</b>      | Reenter the command using the BNN LEN.                                                                                                                                                                                                          |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | CPU GROUP<br>-----<br>LINKLEN <group_number_LEN><br><group_member_LEN> KEY <n><br><br>THE NUMBER OF MEMBERS IN THE CPU GROUP IS <n>.                                                                                                            |
| <b>Meaning:</b>      | For CPU groups, the linking LEN (LINKLEN) always displays. The LEN for all members in the CPU group also displays. If applicable, the key numbers for the MBS display. A message declaring the number of members in the group displays as well. |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | DN <dn> IS INVALID.                                                                                                                                                                                                                             |
| <b>Meaning:</b>      | A customer data change (CDC) user queried a DN that they do not own. The command aborts.                                                                                                                                                        |
| <b>Actions:</b>      | Reissue the command using a valid DN.                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | DN <dn> IS NOT A MEMBER OF A <qgrp_type> GROUP.                                                                                                                                                                                                 |
| <b>Meaning:</b>      | The DN specified is not a member of the group type specified. The command aborts.                                                                                                                                                               |
| <b>Actions:</b>      | Reissue the command using a valid DN.                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                 |

**qgrp** (continued)**MAP responses with associated meanings and actions (Sheet 2 of 4)**

|                      |                                                                                                                                                                                                                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <pre>*** ERROR ***  TYPE OF &lt;grp_type&gt; IS &lt;qgrp_type&gt; PLEASE ENTER: &lt;grp_type&gt;</pre>                                                                                                                                                                                                                                                      |
| <b>Meaning:</b>      | The qgrp command was entered without specifying the type of group to be listed. You are prompted for the group type.                                                                                                                                                                                                                                        |
| <b>Actions:</b>      | Enter the type and number of the group.                                                                                                                                                                                                                                                                                                                     |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                                                                                                                             |
| <b>MAP response:</b> | <pre>&lt;grp_num&gt; NOT IN USE</pre>                                                                                                                                                                                                                                                                                                                       |
| <b>Meaning:</b>      | The specified group number is unassigned. The command aborts.                                                                                                                                                                                                                                                                                               |
| <b>Actions:</b>      | Reissue the command using a valid group number or add the group using SERVORD (SO) directory commands.                                                                                                                                                                                                                                                      |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                                                                                                                             |
| <b>MAP response:</b> | <pre>&lt;grp_type&gt; HUNT GROUP &lt;grp_num&gt; ----- PILOT: &lt;group_member_LEN DN dn&gt;       &lt;group_member_LEN DN dn&gt;  NO HUNT options apply to this HUNT GROUP. THE NUMBER OF MEMBERS IN THE HNT GROUP IS &lt;n&gt;.</pre>                                                                                                                     |
| <b>Meaning:</b>      | <p>For DNH and BNN hunt groups, the pilot LEN, and DN always are displayed. (The LEN and DN of all of the members in the hunt group display.) For DLH and MLH groups, only the DN of the pilot LEN displays.</p> <p>In either case, options that apply to the hunt group display. A message declaring the number of members in the group also displays.</p> |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                                                        |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                                                                                                                             |

**qgrp** (continued)**MAP responses with associated meanings and actions (Sheet 3 of 4)**

|                      |                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <pre> &lt;grp_type&gt; HUNT GROUP &lt;grp_num&gt; ----- PILOT: &lt;group_member_LEN&gt; DN &lt;directory number&gt; BNN GROUP &lt;#nnnnn&gt;       &lt;group_member_LEN&gt; DN &lt;directory_number&gt;  HUNT option TFO applies to this HUNT GROUP. THE NUMBER OF MEMBERS IN THE HNT GROUP IS &lt;n&gt;.</pre> |
| <b>Meaning:</b>      | For hunt groups with BNN, the BNN group line displays with the line of the host group that corresponds to the pilot of the BNN group.                                                                                                                                                                           |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                            |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | LEN IS INVALID                                                                                                                                                                                                                                                                                                  |
| <b>Meaning:</b>      | A CDC user queried a LEN that they do not own. The command aborts.                                                                                                                                                                                                                                              |
| <b>Actions:</b>      | Reissue the command using a valid LEN.                                                                                                                                                                                                                                                                          |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | LEN IS NOT A MEMBER OF A <qgrp_type> GROUP.                                                                                                                                                                                                                                                                     |
| <b>Meaning:</b>      | You entered a LEN that is not a member of the specified group. The command aborts.                                                                                                                                                                                                                              |
| <b>Actions:</b>      | Reissue the command using a valid LEN.                                                                                                                                                                                                                                                                          |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | <pre> SCU GROUP ----- CONTROLLER &lt;group_member_LEN&gt;           &lt;group_member_LEN&gt;  THE NUMBER OF MEMBERS IN THE SCU GROUP IS &lt;n&gt;.</pre>                                                                                                                                                        |
| <b>Meaning:</b>      | For SCU groups, the controlling LEN (identified by field CONTROLLER) always displays. The LEN of all of the members in the SCU group displays subsequently. If applicable, the key numbers for the MBS display. A message declaring the number of members in the group displays.                                |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                            |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                                                                                                                                                                 |

---

**MAP responses with associated meanings and actions (Sheet 4 of 4)**

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | THE GROUP NUMBER IS UNASSIGNED                                                                                                                                        |
| <b>Meaning:</b>      | The group number has not been assigned. There is no group information. The command aborts.                                                                            |
| <b>Actions:</b>      | Enter a valid group number.                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;qgrp</b>                                                                                                                                                       |
| <b>MAP response:</b> | THIS MAY TAKE SOME TIME.<br>DO YOU WISH TO CONTINUE? (Y/N)                                                                                                            |
| <b>Meaning:</b>      | The controller of the SCU group is an attendant console. The system may take some time to search data structures to obtain the data for the members of the SCU group. |
| <b>Actions:</b>      | Enter Y to continue the command. Enter N to abort.                                                                                                                    |
| <b>Command:</b>      | <b>&gt;qgrp blf</b>                                                                                                                                                   |
| <b>MAP response:</b> | NO LEN IS BLF MONITORING THE INPUT DN.                                                                                                                                |
| <b>Meaning:</b>      | Search result contains no result. This happens when there is no LEN which is BLF/SBLF monitoring the input DN.                                                        |
| <b>Actions:</b>      | None.                                                                                                                                                                 |
| <b>Command:</b>      | <b>&gt;qgrp blf</b>                                                                                                                                                   |
| <b>MAP response:</b> | KSETFEAT TABLE IS EMPTY                                                                                                                                               |
| <b>Meaning:</b>      | There is no entry present in table KSETFEAT. This is a very rare message meaning that no key set is present in the office.                                            |
| <b>Actions:</b>      | None.                                                                                                                                                                 |



---

**qlen**

---

**Type**

The qlen command is a nonmenu command.

**Target**

The command target for the qlen command is ALL.

**Description**

Use the qlen command to display the attributes of a specified line equipment number (LEN) or directory number (DN).

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA008**

Feature AR2230 changes the qlen command to support duplicate NXX. Prior to the introduction of the Duplicate NXX Support feature, the switch could not distinguish between ambiguous DNs. With this feature, if you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

**Limitations and restrictions**

The following limits and restrictions apply to the qlen command:

- Only the applicable information prints, depending on whether the LEN is assigned or not, and whether the line is a member of a hunt group, a business set, a data unit, or an IBN line.
- If the DN of a distributed line hunt (DLH) or multiline hunt (MLH) group is specified, the LEN information that prints is that of the pilot member. If the DN is of a MADN, the output is that of the primary member.
- The qlen command can be entered either using prompt mode or using no-prompt mode.
- When the DN value is entered, this command produces the same type of information as the information produced by the PROG directory qdn command.
- If you enter an ambiguous DN, the system displays the following warning and the command terminates:

The DN entered is NOT unique. Please Enter the Full National DN.



**qlen** (continued)

---

**Syntax**

There is no change to the qlen command syntax.

The following table describes the parameters and variables of the qlen command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                        |
|--------------------------|-------|--------------------------------------------------------------------|
| host                     |       | Omitting this entry forces the system to default to the host site. |
| dn                       |       | This variable specifies the seven- or ten-digit DN.                |
| len                      |       | This variable specifies the line equipment number.                 |
| site                     |       | This variable specifies the site name associated to the LEN.       |

**Example**

The following tables provide examples of the qlen command.

**Command example (Sheet 1 of 2)**

|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;qlen</b>                                                      |
| <b>Description of task:</b> | Display the attributes of the specified LEN using prompt entry mode. |

**qlen** (continued)**Command example (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | LINE EQUIPMENT NUMBER:<br>>HOST 00 0 0 13<br>LEN: HOST 00 0 0 13<br>TYPE: MULTIPLE PARTY LINE<br>DIRECTORY NUMBER: 6221227<br>LINE CLASS CODE: 2FR R1 0<br>SIGNALING TYPE: DIGITONE<br>LINE ATTRIBUTE INDEX: 16<br>CARDCODE 2X18AD GND N PADGRP Y BNV NL MNO N<br>OPTIONS:<br>ONI DGT \$ |
| <b>Explanation:</b>  | This command displays the attributes of LEN HOST 00 0 0 13.                                                                                                                                                                                                                              |

**Responses**

The following table explains possible responses to the qlen command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qlen</b>                                                                                                                                               |
| <b>MAP response:</b> | INVALID LEN SPECIFIED FOR THE QLEN COMMAND                                                                                                                    |
| <b>Meaning:</b>      | The specified LEN does not exist in table LENLINES. The command aborts.                                                                                       |
| <b>Actions:</b>      | Reissue the command using a valid LEN or add the LEN to table LENLINES using SERVORD directory commands.                                                      |
| <b>Command:</b>      | <b>&gt;qlen</b>                                                                                                                                               |
| <b>MAP response:</b> | HARDWARE ASSIGNED SOFTWARE UNASSIGNED                                                                                                                         |
| <b>Meaning:</b>      | The specified LEN exists in table LNINV but is not in use; for example, the LEN is not assigned in table LENLINES, IBNLINES, or KSETLINE. The command aborts. |
| <b>Actions:</b>      | Reissue the command using an assigned LEN or use SERVORD directory commands to assign the LEN.                                                                |
| <b>Command:</b>      | <b>&gt;qlen</b>                                                                                                                                               |
| <b>MAP response:</b> | THE DN ENTERED IS AMBIGUOUS-INCLUDE NPA OR ENTER THE LEN                                                                                                      |

**qlen** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| <b>Meaning:</b> | The specified seven-digit DN is in use. The command aborts. |
| <b>Actions:</b> | Reissue the command using the full ten-digit DN.            |

---

**qlt**

---

**Type**

The qlt command is a nonmenu command.

**Target**

The command target for the qlt command is BRISC.

**Description**

Use the qlt command to display information on a specified Logical Terminal Identifier (LTID).

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA012**

Qlt command in feature 59006435 (User loopback testing, echo station) displays information of the X.25/X.75 service group (XSG) to which the echo station LTID is mapped. Echo station string displays instead of Line equipment number (LEN).

**Limitations and restrictions**

The qlt command has no limits or restrictions.

**Syntax**

The qlt command syntax is as follows:

```
qlt <LTID>
```

**Note:** The text string <LTID> indicates the function of the command, is not considered a variable name, and is not part of the command syntax. Do not enter a value to replace this text string.

The following table describes the parameters and variables of the qlt command issued at the CI level.

**Command parameter and variable descriptions**

| Parameters and variables | Value                                  | Description                                                                         |
|--------------------------|----------------------------------------|-------------------------------------------------------------------------------------|
| LTID                     | 0 to 32 for LTGRP, 1 to 1022 for LTNUM | LTID=line terminal ID, LTGRP=logical terminal group, LTNUM=logical terminal number. |

**qlt** (end)

---

**Example**

The following table provides an example of the qlt command.

**Command example**

|                             |                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;qlt cgp 401</b>                                                                                                                                                                                                                                                                                                                          |
| <b>Description of task:</b> | Query LTID cgp 401.                                                                                                                                                                                                                                                                                                                             |
| <b>MAP response:</b>        | LTID: CGP 401<br>SNPA: 919<br>DIRECTORY NUMBER: 7545401<br>LT GROUP NO: 6<br>LTCLASS: BRAFS DEFAULT LOGICAL TERMINAL: N<br>EKTS: N CACH: N<br>SLBRI: N<br>CS: N PS: B<br>XSG: 100 ECHO STATION<br>CUSTGRP: CGP SUBGRP: 0 NCOS: 1 RING: N<br>LINE CLASS CODE: ISDNKSET<br>MAXKEYS: 18<br>OPTIONS:<br>NONE<br>KEY DN<br>--- --<br>1 DN 9197545401 |
| <b>Explanation:</b>         | Information on LTID cgp 401 displayed.                                                                                                                                                                                                                                                                                                          |

**Responses**

There is no change to the qlt command responses.

---

**qmadn**

---

**Type**

The qmadn command is a nonmenu command.

**Target**

The command target for the qmadn command is ALL.

**Description**

Use the qmadn command to provide information on multiple appearance directory numbers (MADN).

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA008**

Feature AR2230 changes the qmadn command to support duplicate office codes (NXX). Prior to the introduction of the Duplicate NXX Support feature, the switch could not distinguish between ambiguous directory numbers (DN). With this feature, if you enter a seven-digit DN and the NXX exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

**Limitations and restrictions**

The following limits and restrictions apply to the qmadn command:

- When using the lmcnt parameter, the system no longer prompts for the bay string. The system prompts for unit rather than bay string.
- The qmadn command uses only the no-prompt entry mode. Rather than single-line entry prompts, you are provided with the qmadn command entry syntax when you attempt to use this command.
- If you enter an ambiguous DN, the system displays the following warning and terminates the command:

This DN exists under more than 1 NPA. Please enter the NPA along with the DN.

**Syntax**

There is no change to the qmadn command syntax.

**qmadn** (continued)

---

The following table describes the parameters and variables of the qmadn command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                                                                                                    |
|--------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------|
| bay                      |       | This variable indicates the unit or bay of the line concentrating module (LCM) and has a range of 0–9.                                         |
| dispall                  |       | This parameter causes information for all MADNs to be displayed.                                                                               |
| dispgrp                  |       | This parameter causes all MADNs in the same group to be displayed.                                                                             |
| display                  |       | This parameter causes information for a specific multiple appearance directory number to be displayed and must be followed by the DN variable. |
| disquick                 |       | This parameter causes a brief display of multiple appearance directory number information.                                                     |
| dn                       |       | This variable indicates the directory number for which information is to be displayed.                                                         |
| frame                    |       | The variable indicates the LCM frame and has a range of 0-511.                                                                                 |
| group_num                |       | This variable indicates the number of the group and has a range of -32768–32766.                                                               |
| grpnum                   |       | This parameter causes information for all MADNs within the specified group to be displayed.                                                    |
| lcmcnt                   |       | This parameter causes the number of MADNs in the specified LCM to be displayed.                                                                |
| offcont                  |       | This parameter causes the number of MADNs in the specified office to be displayed.                                                             |
| site                     |       | The variable specifies the site name of the office.                                                                                            |
| verify                   |       | This parameter causes the specified DN to be verified.                                                                                         |
| verifyall                |       | This parameter causes all MADNs to be verified.                                                                                                |

---

**qmadn** (continued)

---

**Example**

The following table provides an example of the qmadn command.

**Command example (Sheet 1 of 2)**

|                             |                                        |
|-----------------------------|----------------------------------------|
| <b>Command:</b>             | <b>&gt; qmadn 7211000</b>              |
|                             | where                                  |
|                             | 7211000 specifies the DN               |
| <b>Description of task:</b> | Query a MADN line with a specified DN. |



**qmadn** (continued)

---

**Command example (Sheet 2 of 2)**

```
MAP response: Group: -24576 Type: SCA Size: 3
 State: IDLE -> Act: 1
 PRL: Off -> Ctlr: 1 -> Mode: Man
 MRF: N
 BRG: Y -> Tone: N -> Size: 30
 DNL: N CFW: N SSC: N
 EHLD: N
 MREL: Y
 MLAMP: Y

 =====
 <Member#1>
 LEN HOST 00 0 08 08 DN 7211000
 Prim: Y XPM: Y Type: EBS Map: Y
 Ring: RNG Name: N CFMDN: N
 Chn1: N RNOC: N WORT: N Assoc: N
 Mtc: N
 <Member#2>
 LEN HOST 00 0 01 23 DN 7211000
 Prim: N XPM: N Type: 2500 set
 Map: Y
 Ring: RNG Name: N CFMDN: N
 Chn1: N RNOC: N WORT: N Assoc: N
 Mtc: N
 <Member#3>
 LEN HOST 01 0 18 02 DN 7211000
 Prim: N XPM: Y Type: EBS Map: Y
 Ring: RNG Name: N CFMDN: N
 Chn1: N RNOC: N WORT: N Assoc: N
 Mtc: N

Explanation: This command queries a MADN line with a directory number of
 721-1000.
```

**qmadn** (end)

---

## Responses

There is no change to the qmadn command responses.

## qncos

---

### Type

The qncos command is a nonmenu command.

### Target

The command target for the qncos command is ALL.

### Description

The qgrp command is a command used to produce a detailed or summary printout of terminal groups by network class of service (NCOS).

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA009

Feature AF7345 changed the qncos command to support duplicate NXX. Prior to the introduction of the Duplicate NXX Support feature, the switch could not distinguish between ambiguous directory numbers (DN). With this feature, if you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

### Limitations and restrictions

The following limits and restrictions apply to the qncos command:

- The system may require 30 minutes or more to produce a detailed printout for a large range of DNs.
- The qncos command can be entered either using prompt entry mode or using no-prompt entry mode.
- If you enter an ambiguous DN, the system displays the following warning and terminates the command:

The Entered Local DN is not Unique. Please enter the Full National DN.

### Syntax

There is no change to the qncos command syntax.

**qncos** (continued)

The following table describes the parameters and variables of the qncos command.

| Parameters and variables | Description                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| \$                       | This parameter marks the end of the options list. This symbol must be entered even if no options are specified.                                                                         |
| all                      | This parameter queries all DNSs.                                                                                                                                                        |
| d                        | This parameter requests a detailed printout that provides the same information as the summary printout, as well as the DN being queried, DN type, LEN associated with the DN, and NCOS. |
| end_dn                   | This variable specifies the last seven- or ten-digit DN in a range of DNSs.                                                                                                             |
| r                        | This parameter queries a range of DNSs.                                                                                                                                                 |
| s                        | This parameter requests a summary printout that provides the total count of the DNSs within the specified range.                                                                        |
| start_dn                 | This variable specifies the first seven- or ten-digit DN in a range of DNSs.                                                                                                            |

**Example**

The following table provides an example of the qncos command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;qncos</b>                                                                        |
| <b>Description of task:</b> | Display a detailed listing of terminals in the specified range using prompt entry mode. |

**qncos** (end)

---

**Command example (Sheet 2 of 2)**

| <b>MAP response:</b> | >R<br>FROM_DN<br>>7220100<br>TO_DN:<br>>7220125<br>SUMMARY OR DETAIL: D<br>>d<br>COMMAND AS ENTERED<br>QDNWRK R 7220100 7221025 D<br>ENTER Y TO CONFIRM N TO REJECT OR E TO EDIT<br>>y WARNING: QUERIES OF ALL DN'S OR QUERIES OF A LARGE<br>RANGE OF DN'S MAY RUN FOR 30 MINUTES OR MORE BEFORE<br>PRODUCING ANY OUTPUT FROM 7220100 TO 7220125<br><table border="0"><thead><tr><th>DN</th><th>LEN</th><th>NCOS</th><th>-----</th></tr></thead><tbody><tr><td>7220100</td><td>HOST 00 1 01 00</td><td>60</td><td></td></tr><tr><td>7220102</td><td>HOST 00 1 01 02</td><td>60</td><td></td></tr><tr><td>7220104</td><td>HOST 00 1 01 04</td><td>0</td><td></td></tr><tr><td>7220106</td><td>HOST 00 1 01 06</td><td>0</td><td></td></tr><tr><td>7220108</td><td>HOST 00 1 01 08</td><td>0</td><td></td></tr><tr><td>7220110</td><td>HOST 00 1 01 10</td><td>60</td><td></td></tr><tr><td>7220112</td><td>HOST 00 1 01 12</td><td>60</td><td></td></tr><tr><td>7220114</td><td>HOST 00 1 01 14</td><td>60</td><td></td></tr><tr><td>7220116</td><td>HOST 00 1 01 16</td><td>60</td><td></td></tr><tr><td>7220118</td><td>HOST 00 1 01 18</td><td>60</td><td></td></tr><tr><td>7220120</td><td>HOST 00 1 01 20</td><td>60</td><td></td></tr><tr><td>7220120</td><td>HOST 00 1 01 21</td><td>60</td><td></td></tr><tr><td>7220122</td><td>HOST 00 1 01 22</td><td>60</td><td></td></tr><tr><td>7220123</td><td>HOST 00 1 01 23</td><td>60</td><td></td></tr><tr><td>7220124</td><td>HOST 00 1 01 24</td><td>60</td><td></td></tr><tr><td>7220125</td><td>HOST 00 1 01 25</td><td>60</td><td></td></tr></tbody></table> | DN   | LEN   | NCOS | ----- | 7220100 | HOST 00 1 01 00 | 60 |  | 7220102 | HOST 00 1 01 02 | 60 |  | 7220104 | HOST 00 1 01 04 | 0 |  | 7220106 | HOST 00 1 01 06 | 0 |  | 7220108 | HOST 00 1 01 08 | 0 |  | 7220110 | HOST 00 1 01 10 | 60 |  | 7220112 | HOST 00 1 01 12 | 60 |  | 7220114 | HOST 00 1 01 14 | 60 |  | 7220116 | HOST 00 1 01 16 | 60 |  | 7220118 | HOST 00 1 01 18 | 60 |  | 7220120 | HOST 00 1 01 20 | 60 |  | 7220120 | HOST 00 1 01 21 | 60 |  | 7220122 | HOST 00 1 01 22 | 60 |  | 7220123 | HOST 00 1 01 23 | 60 |  | 7220124 | HOST 00 1 01 24 | 60 |  | 7220125 | HOST 00 1 01 25 | 60 |  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|-------|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|---|--|---------|-----------------|---|--|---------|-----------------|---|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|---------|-----------------|----|--|
| DN                   | LEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NCOS | ----- |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220100              | HOST 00 1 01 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220102              | HOST 00 1 01 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220104              | HOST 00 1 01 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0    |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220106              | HOST 00 1 01 06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0    |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220108              | HOST 00 1 01 08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0    |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220110              | HOST 00 1 01 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220112              | HOST 00 1 01 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220114              | HOST 00 1 01 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220116              | HOST 00 1 01 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220118              | HOST 00 1 01 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220120              | HOST 00 1 01 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220120              | HOST 00 1 01 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220122              | HOST 00 1 01 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220123              | HOST 00 1 01 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220124              | HOST 00 1 01 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| 7220125              | HOST 00 1 01 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |
| <b>Explanation:</b>  | This command produces a detailed summary of the number of terminals by NCOS within the range of 7220100 to 7220125.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |      |       |         |                 |    |  |         |                 |    |  |         |                 |   |  |         |                 |   |  |         |                 |   |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |         |                 |    |  |

**Responses**

There is no change to the qncos command responses.

---

**qphf**

---

**Type**

The qphf command is a nonmenu command.

**Target**

The command target for the qphf command is BRISC.

**Description**

Use the qphf command to display information on packet handler services related to directory number (DN), logical terminal identifier (LTID), X.25/X.75 service group (XSG).

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA014**

Feature 59013267 (On-Demand B-channel X.25 Packet Mode Data—Provisioning, Data Distribution Manager, and XLIU) changes the qphf command so that it displays information about the LINK objects created for On-demand B-channel (ODB) DNs with B-channel packet mode data service.

**NA012**

The qphf command in feature 59006435 (User loopback testing, echo station) displays information on packet handler services related to DN, LTID, XSG.

**NA010**

Feature AF7512 changes the qphf command to support duplicate NXX. The Duplicate NXX Support feature allows the switch to distinguish between ambiguous directory numbers (DNs). If you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

**Limitations and restrictions**

The following limits and restrictions apply to the qphf command:

If you enter an ambiguous DN, the system displays the following warning and terminates the command:

```
This local DN is not unique.
Please use the full national DN.
```

**qphf** (continued)**Syntax**

The qphf command syntax is as follows:

```
qphf Queries objects in MIT for data.
 PARS: <object type>
 {XSG <xsg num> {0 To 749}
 [<all option> {ALL}]
 CHNL <xsg num> {0 TO 749},
 <local chnl num> {1 to 31},
 LTID <ltgrp> STRING
 <ltnum> {1 TO 1022},
 CLLI <clli> STRING
 <member> {0 TO 9999},
 DN <dn num> STRING
 X75 <clli> STRING
 <member> {0 TO 9999},
 PH,
 ARA}
```

The following table describes the parameters and variables of the qphf command issued at CI level.

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value                                  | Description                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ARA                      | N/A                                    | ARA = Auto Resource Assignment. Displays a list of XSGs that are available for ARA assignment.                                                                                                                                                                                                                                                                                                 |
| CHNL                     | 1 to 31                                | CHNL = Local channel number.                                                                                                                                                                                                                                                                                                                                                                   |
| CLLI                     | CLLI name and member number            | CLLI = Common Language Location Identifier.                                                                                                                                                                                                                                                                                                                                                    |
| DN                       | 7-10 digits                            | DN = directory number. The information displayed includes X.25 facilities provisioned against the DN, call type in table DNCTINFO, DN and channel type in table DNCHNL, and LTID related to this DN. For an echo station DN, "ECHO STATION" displays besides the XSG number and no channel information appears.                                                                                |
| LTID                     | 0 to 32 for LTGRP, 1 to 1022 for LTNUM | LTID=logical terminal identifier, LTGRP=logical terminal group, LTNUM=logical terminal number. The information displayed includes call types of calls in process, layer 3 status, mapping information (DN, key number, XSG numbers), and other link information. For an echo station LTID, "ECHO STATION" displays besides the XSG number and no PVC or outgoing SVC call information appears. |

**qphf** (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value                       | Description                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PH                       |                             | PH = packet handler                                                                                                                                                                                                                           |
| XSG                      | 0 to 749                    | XSG = X.25/X.75 service group. The information displayed includes the XSG number and channels that are mapped to the XSG. If an echo station is provisioned on the XSG, the LTID of the echo station displays and link type displays as "PB." |
| XSG (all option)         | all                         | This option displays all the channels associated with the XSG and links associated with the corresponding channels. For an echo station LTID, the echo station information displays and no channel number appears.                            |
| X75                      | CLLI name and member number | X75 = X.75 service group. Identifies the X.75 trunk group and member associated with this service.                                                                                                                                            |

**Example**

The following table provides an example of the qphf command.

**Command example (Sheet 1 of 2)**

|                             |                                                     |
|-----------------------------|-----------------------------------------------------|
| <b>Command:</b>             | <b>&gt;qphf xsg 100 all</b>                         |
| <b>Description of task:</b> | Display information on XSG 100 with the All option. |



**qphf** (continued)

---

**Command example (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | MAPPING FOR XSG 100<br>-----<br><br>CHANNEL: 1 LTID: PKT 5 DN: 6135551105<br>No active call(s) on this LTID.<br><br>CHANNEL: 2 LTID: PKT 6 DN: 6135551106<br>No active call(s) on this LTID.<br><br>CHANNEL: 3 LTID: PKT 7 DN: 6135551107<br>No active call(s) on this LTID.<br><br>CHANNEL: 4 LTID: PKT 8 DN: 6135551108<br>No active call(s) on this LTID.<br><br>ECHO INFO: LTID: PKT 100 DN: 6135551022<br>No active call(s) on this LTID.<br><br>CHANNEL: 6<br><br>CHANNEL: 7 LTID: PKT 3 DN: 6135551103<br>No active call(s) on this LTID.<br><br>CHANNEL: 8 LTID: PKT 4 DN: 6135551104<br>No active call(s) on this LTID. |
| <b>Explanation:</b>  | Information on XSG 100 displays. All the channels associated with XSG 100 and links associated with the corresponding channels appear. For the echo station LTID, echo station information appears and no channel number displays.                                                                                                                                                                                                                                                                                                                                                                                               |

**Responses 1**

The following table explains possible responses to the qphf command where the DN's involved do not have the ODB option assigned.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                     |
|----------------------|-------------------------------------------------------------------------------------|
| <b>Command:</b>      | >qphf <dn>                                                                          |
| <b>MAP response:</b> | Unable to provide mapping for Echo Station Link.                                    |
| <b>Meaning:</b>      | When the DN option is used and there is no mapping for an echo station LTID to XSG. |
| <b>Actions:</b>      | None.                                                                               |

---

**qphf** (continued)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qphf &lt;xsg&gt;</b>                                                                      |
| <b>MAP response:</b> | No echo station links mapped.                                                                    |
| <b>Meaning:</b>      | When the XSG option is used, no echo station links are mapped and only channel child is present. |
| <b>Actions:</b>      | None.                                                                                            |
| <b>Command:</b>      | <b>&gt;qphf &lt;xsg&gt;</b>                                                                      |
| <b>MAP response:</b> | No physical channels mapped.                                                                     |
| <b>Meaning:</b>      | When the XSG option is used, only echo station is present.                                       |
| <b>Actions:</b>      | None.                                                                                            |

**Responses 2**

The following table explains the qphf command responses where the DNs involved have the option ODB assigned. The XSG channel that displays for an

**qphf** (continued)

---

XSG when there is no ODB call is 0. The XSG channel that displays for an XSG when there is an active ODB call ranges from 1 to 31.

**MAP responses with associated meanings and actions**

**Command:** >qphf xsg 100

**MAP response:** XSG INFORMATION

-----  
XSG EXT INDEX: 100      CURRENT NUMBER OF LINKS: 13  
XLIU INDEX: 0      MAXIMUM NUMBER OF CHANNELS: 30  
XSG 100 IS AVAILABLE FOR USE BY AUTO RESOURCE ASSIGNMENT  
NUMBER OF ECHO STATION: 0  
NUMBER OF ODB LINKS: 2

MAPPING

-----  
CHANNEL: 1 X.25 Bd  
CHANNEL: 2 X.25 Bd  
CHANNEL: 3 X.25 PB  
CHANNEL: 4 X.25 PB  
CHANNEL: 5 X.25 Bd  
CHANNEL: 6 X.25 Bd  
CHANNEL: 7 X.25 Bd  
CHANNEL: 8 X.25 Bd  
CHANNEL: 9 X.75 B  
CHANNEL: 10 X.75 B  
CHANNEL: 11 X.25 PB  
CHANNEL: 12 X.25 PB  
CHANNEL: 13 X.25 PB  
CHANNEL: 14 X.25 PB  
CHANNEL: 15 X.25 PB  
CHANNEL: 0 X.25 B  
CHANNEL: 0 X.25 B

No Echo Station Links mapped.

**Meaning:** When the XSG option is used, ODB call has not started.

**Actions:** None.

## qphf (continued)

### MAP responses with associated meanings and actions

**Command:** >qphf xsg 100

**MAP response:** XSG INFORMATION

```

XSG EXT INDEX: 100 CURRENTNUMBER OF LINKS: 13
XLIU INDEX: 0 MAXIMUM NUMBER OF CHANNELS: 30
XSG 100 IS AVAILABLE FOR USE BY AUTO RESOURCE ASSIGNMENT
NUMBER OF ECHO STATION: 0
NUMBER OF ODB LINKS: 2

```

#### MAPPING

```

CHANNEL: 1 X.25 Bd
CHANNEL: 2 X.25 Bd
CHANNEL: 3 X.25 PB
CHANNEL: 4 X.25 PB
CHANNEL: 5 X.25 Bd
CHANNEL: 6 X.25 Bd
CHANNEL: 7 X.25 Bd
CHANNEL: 8 X.25 Bd
CHANNEL: 9 X.75 B
CHANNEL: 10 X.75 B
CHANNEL: 11 X.25 PB
CHANNEL: 12 X.25 PB
CHANNEL: 13 X.25 PB
CHANNEL: 14 X.25 PB
CHANNEL: 15 X.25 PB
CHANNEL: 16 X.25 B
CHANNEL: 0 X.25 B

```

No Echo Station Links mapped.

**Meaning:** When the XSG option is used and the ODB call has started.

**Actions:** None.

**qphf** (continued)**MAP responses with associated meanings and actions****Command:** >qphf xsg 100 all**MAP response:** MAPPINGS FOR XSG 100

-----

CHANNEL: 1 LTID: NI2 201 DN: 6135550201 DN: 6135550205

No active call(s) on this LTID.

LTID: NI2 203 DN: 6135550206

No active call(s) on this LTID.

CHANNEL: 2 LTID: NI2 202 DN: 6135550202 DN: 6135550204

No active call(s) on this LTID.

CHANNEL: 3 LTID: PKT 101 DN: 6135550101

No active call(s) on this LTID.

CHANNEL: 4 LTID: PKT 102 DN: 6135550102

1 active call(s) on this LTID.

CHANNEL: 5

CHANNEL: 6 LTID: PKT 1 DN: 6135551001

No active call(s) on this LTID.

CHANNEL: 7 LTID: PKT 4 DN: 6135551004

No active call(s) on this LTID.

CHANNEL: 8 LTID: PKT 3 DN: 6135551003

No active call(s) on this LTID.

CHANNEL: 9

CHANNEL: 10

CHANNEL: 11 LTID: PKT 103 DN: 6135550103

No active call(s) on this LTID.

CHANNEL: 12 LTID: PKT 104 DN: 6135550104

No active call(s) on this LTID.

CHANNEL: 13 LTID: PKT 105 DN: 6135550105

1 active call(s) on this LTID.

CHANNEL: 14 LTID: PKT 106 DN: 6135550106

No active call(s) on this LTID.

CHANNEL: 15 LTID: PKT 107 DN: 6135550107

No active call(s) on this LTID.

CHANNEL: 0 LTID: NI2 100 DN: 6135556546

No active call(s) on this LTID.

CHANNEL: 0 LTID: NI2 101 DN: 6135556789

No active call(s) on this LTID.

No Echo Station Links mapped.

**Meaning:** When the XSG ALL option is used and the ODB call has not started.**Actions:** None.

**qphf** (continued)**MAP responses with associated meanings and actions**

**Command:** >qphf xsg 100 all

**MAP response:** MAPPINGS FOR XSG 100

```

CHANNEL: 1 LTID: NI2 201 DN: 6135550201 DN: 6135550205
 No active call(s) on this LTID.
 LTID: NI2 203 DN: 6135550206
 No active call(s) on this LTID.
CHANNEL: 2 LTID: NI2 202 DN: 6135550202 DN: 6135550204
 No active call(s) on this LTID.
CHANNEL: 3 LTID: PKT 101 DN: 6135550101
 No active call(s) on this LTID.
CHANNEL: 4 LTID: PKT 102 DN: 6135550102
 1 active call(s) on this LTID.
CHANNEL: 5
CHANNEL: 6 LTID: PKT 1 DN: 6135551001
 No active call(s) on this LTID.
CHANNEL: 7 LTID: PKT 4 DN: 6135551004
 No active call(s) on this LTID.
CHANNEL: 8 LTID: PKT 3 DN: 6135551003
 No active call(s) on this LTID.
CHANNEL: 9
CHANNEL: 10
CHANNEL: 11 LTID: PKT 103 DN: 6135550103
 No active call(s) on this LTID.
CHANNEL: 12 LTID: PKT 104 DN: 6135550104
 No active call(s) on this LTID.
CHANNEL: 13 LTID: PKT 105 DN: 6135550105
 1 active call(s) on this LTID.
CHANNEL: 14 LTID: PKT 106 DN: 6135550106
 No active call(s) on this LTID.
CHANNEL: 15 LTID: PKT 107 DN: 6135550107
 No active call(s) on this LTID.
CHANNEL: 16 LTID: NI2 100 DN: 6135556546
 1 active call(s) on this LTID.
CHANNEL: 0 LTID: NI2 101 DN: 6135556789
 No active call(s) on this LTID.

```

No Echo Station Links mapped.

**Meaning:** When the XSG ALL option is used and the ODB call has started.

**Actions:** None.

## **qphf** (continued)

---

### **MAP responses with associated meanings and actions**

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qphf chnl 100 0</b>                                       |
| <b>MAP response:</b> | This is a ODB Channel<br>and is not physically connected to PHF. |
| <b>Meaning:</b>      | Display for QPHF CHNL command when there is no ODB call active.  |
| <b>Actions:</b>      | None.                                                            |

### **MAP responses with associated meanings and actions**

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qphf chnl 100 32</b>                                                                                           |
| <b>MAP response:</b> | CHANNEL INFORMATION<br>-----<br>CHANNEL TYPE: X.25 B RATE: 64 KB<br><br>MAPPING<br>-----<br>XSG: 100<br>LTID: NI2 201 |
| <b>Meaning:</b>      | Display for QPHF CHNL command when there is an ODB call active.                                                       |
| <b>Actions:</b>      | None.                                                                                                                 |

**qphf** (continued)**MAP responses with associated meanings and actions (Sheet 1 of 2)****Command:** >qphf ltid NI2 100

**MAP response:** LINK INFORMATION  
-----  
TYPE: X.25 B LTID: NI2 100

MAPPING  
-----  
CHANNEL: 0 X.25 B  
XSG: 100  
DN: 6135550205, KEY: 5  
CALL INFORMATION  
-----  
pvc: 0 call  
svc: 0 call  
incoming svc: 0 call  
outgoing svc: 0 call

Layer 3 link status: up

TYPE: X.25 LTID: NI2 100

MAPPING  
-----  
CHANNEL: 16 X.25 B  
XSG: 100  
DN: 6135550210, KEY: 10  
CALL INFORMATION  
-----  
pvc: 0 call  
svc: 1 call  
incoming svc: 0 call  
outgoing svc: 0 call

Layer 3 link status: up

TYPE: X.25 D LTID: NI2 100  
SAPI: 16 TEI: DYNAMIC

MAPPING  
-----  
CHANNEL: 1 X.25 Bd  
XSG: 100  
DN: 6135550207, KEY: 7



**qphf** (end)**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b><br>(continued) | CALL INFORMATION<br>-----<br>pvc: 0 call<br>svc: 0 call<br>incoming svc: 0 call<br>outgoing call: 0 call<br><br>Layer 3 link status: up |
| <b>Meaning:</b>                     | Display for QPHF LTID command showing the link information for the LTID that was queried.                                               |
| <b>Actions:</b>                     | None.                                                                                                                                   |

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qphf DN 6135556546</b>                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MAP response:</b> | DN INFORMATION (B Channel)<br>-----<br>NUI: NO FSA: NO RCA: NO TCN: NO ICB: NO<br>FCPN: NO RPOAB: NO LCP: NO CUGS: NO OCB: NO<br>SLCN: 1 NPVC: 0 NOWI: 0 NNRC: 1 NOWO: 0<br>NDPS: NO LLFSQ: MOD8 N2: 3 T3: 5<br>LLWS: 7 IMPS: 128 OMPS: 128 T1: 20 T2: 2<br>N1: 2120 DTCA: NO IDTCA: 64000 ODTCA: 64000<br>IPLWS: 2 OPLWS: 2 PLSQ: MOD8 NDWS: NO<br>ICS: NO<br><br>MAPPING<br>-----<br>LTID: NI2 100<br>CHANNEL: 16 X.25 B<br>XSG 100 |
| <b>Meaning:</b>      | Display for QPHF DN command showing DN information for the B-channel.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                 |

---

**qpin**

---

**Type**

The QPIN (query personal identification) command is a nonmenu command.

**Target**

The command target for the QPIN command is ALL.

**Description**

The QPIN command displays a DN Key number of a Centrex IP i2004 Internet Telephone. Use this command to retrieve the DN Key number when setting up the terminal proxy server (TPS) for the Centrex IP system.

To display the DN Key of an i2004 phone, enter a 10-digit directory number (DN). Or enter a 10-digit DN and a line equipment number (LEN) to display the DN Key of an i2004 phone that has a primary directory number (PDN) of a Multiple Appearance Directory Number (MADN) DN.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA012**

Feature 59010599 introduced the QPIN command. This feature was canceled. SR50139413 patches this command back to NA012 for Centrex IP use.

**Limitations and restrictions**

The following limits and restrictions apply to the QPIN command:

- The QPIN command only applies to Centrex IP.
- Only use the QPIN command with a DN assigned to key 1 of the i2004 phone. If you try to use the QPIN command with a secondary DN, the DN Key is not valid. The user is denied service until the correct DN Key is assigned.

**Syntax**

The QPIN command syntax is as follows:

QPIN <DN\_or\_LEN>

**qpin** (continued)

The following table describes the parameters and variables of the QPIN command.

**Command parameter and variable descriptions**

| Parameters and variables | Value                                                                                                      | Description                                                           |
|--------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| DN                       | <directory number:><br>STRING                                                                              | This parameter specifies the DN for the i2004 phone.                  |
| LEN                      | [<Site:> STRING]<br><Frame:> 0 to 511}<br><Unit:> {0 to 9}<br><Drawer:> {0 to 31}<br><Circuit:> {0 to 99}] | This parameter specifies the LEN of an i2004 phone with a MADN PDN.   |
| HELP                     |                                                                                                            | This parameter displays help-related information on the QPIN command. |
| QUIT                     |                                                                                                            | This parameter exits the QPIN command.                                |

The QPIN output for a DN Key number consists of a 20-digit format, as follows.

aabbbbbbbbbbccccdddd

where:

aa =the two-digit terminal type (00 refers to a Centrex IP i2004 phone)

bbbbbbbbbb=the ten-digit primary PDN

cccc=the four-digit PM node number

dddd=the four-digit PM terminal number

**Example**

The following table provides an example of the QPIN command.

**Command example**

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > qpin                                                                                                   |
| <b>Description of task:</b> | Displays the DN Key number of a Centrex IP i2004 Internet Telephone.                                     |
| <b>MAP response:</b>        | QPIN - Query PIN/DNKey for IP-Pphone/IPLL<br>QPIN:                                                       |
| <b>Explanation:</b>         | Enter the 10-digit DN to display the DN Key of an i2004 phone. Or, for a MADN PDN, enter a DN and a LEN. |

**qp**in (continued)**Responses**

The following table explains possible responses to the QPIN command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | >dn 9195559991                                                                                                        |
| <b>MAP response:</b> | DN KEY: 00919555999101120033                                                                                          |
| <b>Meaning:</b>      | The desired DN Key displays.                                                                                          |
| <b>Actions:</b>      | None                                                                                                                  |
| <b>Command:</b>      | >dn 9195559990                                                                                                        |
| <b>MAP response:</b> | MADN DN entered. A LEN must be specified.<br><Line Equipment Number>:                                                 |
| <b>Meaning:</b>      | You must enter a LEN to display the DN Key.                                                                           |
| <b>Actions:</b>      | Enter the LEN, which has the MADN DN on key 1, to display the DN Key for the LEN. (Proceed to the following command.) |
| <b>Command:</b>      | >gwip 10 0 0 1                                                                                                        |
| <b>MAP response:</b> | DN Key: 00919555999001110022                                                                                          |
| <b>Meaning:</b>      | The desired DN Key displays.                                                                                          |
| <b>Actions:</b>      | None                                                                                                                  |
| <b>Command:</b>      | >dn 919555123                                                                                                         |
| <b>MAP response:</b> | Invalid DN: The DN must be 10 digits. Please query again.                                                             |
| <b>Meaning:</b>      | User has entered a DN that is not 10 digits in length.                                                                |
| <b>Actions:</b>      | Re-enter with 10 digits.                                                                                              |
| <b>Command:</b>      | >dn abcd                                                                                                              |
| <b>MAP response:</b> | TYPE OF <TEN_DIGIT_REGISTER> IS TEN_DIGIT_REGISTER<br><TEN_DIGIT_REGISTER>:                                           |
| <b>Meaning:</b>      | User has entered a non-numeric DN.                                                                                    |
| <b>Actions:</b>      | Re-enter with 10 numerical digits.                                                                                    |

**qp**in (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                          |               |
|----------------------|--------------------------------------------------------------------------|---------------|
| <b>Command:</b>      | >qp                                                                      | 9195551234    |
| <b>MAP response:</b> | Unassigned DN                                                            |               |
| <b>Meaning:</b>      | User has entered a DN that has not been assigned to any phone.           |               |
| <b>Actions:</b>      | Check the DN. Re-enter the correct DN.                                   |               |
| <b>Command:</b>      | >qp                                                                      | 1195551234    |
| <b>MAP response:</b> | Invalid Area Code                                                        |               |
| <b>Meaning:</b>      | User has entered a number for an incorrect area code.                    |               |
| <b>Actions:</b>      | Check the area code. Re-enter the correct area code.                     |               |
| <b>Command:</b>      | >qp                                                                      | 9191111234    |
| <b>MAP response:</b> | Invalid Office Code                                                      |               |
| <b>Meaning:</b>      | User has entered a number for an incorrect office code.                  |               |
| <b>Actions:</b>      | Check the office code. Re-enter the correct office code.                 |               |
| <b>Command:</b>      | >len                                                                     | gwip 12 0 3 0 |
| <b>MAP response:</b> | For Centrex IP, use the DN query to get the DN key.                      |               |
| <b>Meaning:</b>      | User has entered a LEN for an i2004 phone without entering the DN first. |               |
| <b>Actions:</b>      | Re-enter the command, beginning with the DN.                             |               |

---

**qscmp**

---

**Type**

The qscmp command is a nonmenu command.

**Target**

The command target for the qscmp command is ALL.

**Description**

Use the qscmp command to review the structure of a series completion list that includes a specified directory number (DN). This command displays the DN of all lines that point to the specified DN through SCMP. If the specified line has the SCMP option, the command also displays the DN of the line to which the SCMP option points. In turn, that line is checked for SCMP and the DN to which it points. This cycle continues until a line that does not have the SCMP option is encountered. The series completion list, which begins with the specified DN, displays fully.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA008**

Feature AR2230 changes the qscmp command to support duplicate office codes (NXX). Prior to the introduction of the Duplicate NXX Support feature, the switch could not distinguish between ambiguous DNs. With this feature, if you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

**Limitations and restrictions**

The following limits and restrictions apply to the qscmp command:

- If you enter an ambiguous DN, the following warning displays and the command terminates:

This Local DN is not Unique. Please use the Full National DN.

**Syntax**

There is no change to the qscmp command syntax.

**qscmp** (continued)

---

The following table describes the parameters and variables of the qscmp command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                                                                                          |
|--------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------|
| dn                       |       | This variable specifies the DN assigned to a line that resides on the switch. The valid entry value is a seven- or ten-digit vector. |

**Example**

The following table provides an example of the qscmp command.

**Command example**

|                             |                                                                                                                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;qscmp 6215001</b><br>where<br>6215001 specifies the DN.                                                                                                                                                                      |
| <b>Description of task:</b> | Review the series completion list for a specified DN.                                                                                                                                                                               |
| <b>MAP response:</b>        | The following DNs series complete to (613)<br>621-5001:<br>(613) 621-1347<br>(613) 621-4000<br>The series completion list which begins at DN<br>(613) 621-5001 is as follows:<br>(613) 621-5002<br>(613) 621-5003<br>(613) 621-1002 |
| <b>Explanation:</b>         | This command produces the series completion list for DN 6215001.                                                                                                                                                                    |

**Responses**

The following table explains possible responses to the qscmp command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                  |
|----------------------|----------------------------------|
| <b>Command:</b>      | <b>&gt;qscmp</b>                 |
| <b>MAP response:</b> | Enter: DN <7 or 10 digit vector> |

---

**qscmp** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | You entered the qscmp command without a DN. There is no default DN for this command.                                                          |
| <b>Actions:</b>      | Reissue the command with a valid DN.                                                                                                          |
| <b>Command:</b>      | <b>&gt;qscmp</b>                                                                                                                              |
| <b>MAP response:</b> | Bad DN specified.                                                                                                                             |
| <b>Meaning:</b>      | The DN you entered is invalid.                                                                                                                |
| <b>Actions:</b>      | Reissue the command using a valid DN.                                                                                                         |
| <b>Command:</b>      | <b>&gt;qscmp</b>                                                                                                                              |
| <b>MAP response:</b> | The following DNS series complete to (613) 621-5001:<br>(613) 621-1347<br>(613) 621-4000<br>(613) 621-4000 does not have the SCMP line option |
| <b>Meaning:</b>      | The system encountered a DN without the SCMP option.                                                                                          |
| <b>Actions:</b>      | None                                                                                                                                          |



## qsl

---

### Type

The qsl command is a nonmenu command.

### Target

The command target for the qsl command is ALL.

### Description

The qsl command is a query command used to display a detailed list of SLE features. The line can be specified by directory number (DN) or line equipment number (LEN). One or all features can be specified. When the specified LEN belongs to a Meridian business set (MBS) with multiple DNs, the system prompts you to enter a key variable value.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA009

Feature AF7345 changed the qsl command to support duplicate NXX. Prior to the introduction of the Duplicate NXX Support feature, the switch could not distinguish between ambiguous DN. With this feature, if you enter a seven-digit DN and the office code (NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts for the full ten-digit DN.

### Limitations and restrictions

The following limits and restrictions apply to the qsl command:

- If a specified LEN belongs to an MBS with multiple DNs, the system prompts you to enter a value in the range of 1–69 for the key.
- If a specified LEN belongs to a non-MBS, the system does not prompt for a key.
- If you enter an ambiguous DN, the system displays the following warning and terminates the command:

`This Local DN is not unique. Please use the Full National DN.`

### Syntax

There is no change to the qsl command syntax.

**qsl** (continued)

The following table describes the parameters and variables of the qsl command.

**Command parameter and variable descriptions**

| Parameters and variables | Description                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------|
| full                     | Omitting this entry forces the system to default to displaying the screening list data in full format.           |
| all                      | This variable queries all SLE features for a specified DN or LEN.                                                |
| dn                       | This variable specifies the DN of the line to be queried. The valid entry value is a seven- or ten-digit vector. |
| f                        | This parameter displays the screening list data in full format.                                                  |
| h                        | This parameter displays the screening list data in hex format.                                                   |
| len                      | This variable specifies the LEN of the line to be queried.                                                       |
| sle_feature              | This variable queries a single SLE feature for a specified DN or LEN.                                            |

**Example**

The following table provides an example of the qsl command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > qsl 0 0 0 13 1 all<br>where<br>0 0 0 13 specifies the LEN to be queried<br>1 specifies the key |
| <b>Description of task:</b> | Query all SLE features of an MBS set using a specified LEN and key.                              |

**qsl** (continued)**Command example (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | DN: 6216060<br>LEN: HOST 00 0 00 13 <b>KEY: 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                      | SCRJ feature is INACTIVE and will generate AMA records. Contents of SCRJlistare:                                                                                                                                                                                                                                                                                                                                                                                                        |
|                      | 6137224055<br>613722456 priv                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                      | SCF feature is ACTIVE and will generate AMA records. Screened calls will forward to: \$. Contents of SCF list are:                                                                                                                                                                                                                                                                                                                                                                      |
|                      | List has not entries.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                      | DRCW feature is ACTIVE and will not generate AMA records. Contents of DRCW list are:                                                                                                                                                                                                                                                                                                                                                                                                    |
|                      | 6137223246 priv      6137224556      6137234056 priv<br>6137223426 priv      6137224643      6137233256<br>6137223453 priv      6137224667 priv      6137234446<br>6137223456 priv      6137224743      6137235343<br>6137223246      6137224777      6137235656<br>6137224456 priv      6137224056 priv      6137236666      6137224457<br>priv      6137224556      6137235476      6137224463<br>6137226356      6137234326      6137224555<br>6137227746      6137234056 priv ----- |
| <b>Explanation:</b>  | This command queries all SLE features using MBS DN set key 1 (assigned to DN6216060) on HOST 00 0 00 13. The data displays in full format.                                                                                                                                                                                                                                                                                                                                              |

**Responses**

The following table explains possible responses to the qsl command.

**MAP responses with associated meanings and actions (Sheet 1 of 4)**

|                      |                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                            |
| <b>MAP response:</b> | <i>CANNOT CREATE CPID</i>                                                                                                 |
| <b>Meaning:</b>      | <i>Either the information you entered is incorrect or data corruption has occurred. The command aborts.</i>               |
| <b>Actions:</b>      | <i>Confirm the validity of the data you entered. If the data is valid, contact the next level of maintenance support.</i> |

**qsl** (continued)**MAP responses with associated meanings and actions (Sheet 2 of 4)**

|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                     |
| <b>MAP response:</b> | <i>CANNOT FIND LINES DATA</i>                                                                                                                      |
| <b>Meaning:</b>      | Either the information you entered is incorrect or data corruption has occurred. The command aborts.                                               |
| <b>Actions:</b>      | Confirm the validity of the data you entered. If the data is valid, contact the next level of maintenance support.                                 |
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                     |
| <b>MAP response:</b> | <i>DN &lt;dn&gt; is NOT VALID for this office.</i>                                                                                                 |
| <b>Meaning:</b>      | The DN you entered is not valid for this office. The command aborts.                                                                               |
| <b>Actions:</b>      | Reissue the command using a valid DN.                                                                                                              |
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                     |
| <b>MAP response:</b> | *** <i>ERROR</i> ***<br>TYPE OF <directory number> OR <line equipment number><br>IS <dn_len_type><br><directory number> OR <line equipment number> |
| <b>Meaning:</b>      | The DN you entered is not valid for this office.                                                                                                   |
| <b>Actions:</b>      | Reissue the command using a valid LEN.                                                                                                             |
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                     |
| <b>MAP response:</b> | <i>KEY:&lt;dn key&gt;</i>                                                                                                                          |
| <b>Meaning:</b>      | The system prompts you to enter the key if the LEN you entered belongs to an MBS with multiple DNs.                                                |
| <b>Actions:</b>      | Reissue the command using a valid key from 1–69.                                                                                                   |
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                     |
| <b>MAP response:</b> | <i>LEN &lt;len&gt; NOT VALID for this office.</i>                                                                                                  |
| <b>Meaning:</b>      | The LEN you entered is not valid for this office. The command aborts.                                                                              |
| <b>Actions:</b>      | Reissue the command using a valid LEN.                                                                                                             |

**qsl** (continued)

---

**MAP responses with associated meanings and actions (Sheet 3 of 4)**

|                      |                                                                                                                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | <i>LEN &lt;len&gt; has not been datafilled.</i>                                                                                                                                                                                                                                                                  |
| <b>Meaning:</b>      | The LEN you entered has not been associated with a subscriber (HASU). The command aborts.                                                                                                                                                                                                                        |
| <b>Actions:</b>      | Reissue the command using a valid LEN.                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | <i>List has no entries.</i>                                                                                                                                                                                                                                                                                      |
| <b>Meaning:</b>      | The line being queried has been assigned the specified SLE feature, but does not yet have any entries. If a single feature was specified in the command string, the system aborts the command. If the command string specified that all SLE features were to be queried, the system continues the query process. |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                             |
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | <i>This line does not have any SLE features.</i>                                                                                                                                                                                                                                                                 |
| <b>Meaning:</b>      | The line being queried does not have any SLE feature. The command aborts.                                                                                                                                                                                                                                        |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                             |
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | <i>This line has not been assigned &lt;feature&gt;.</i>                                                                                                                                                                                                                                                          |
| <b>Meaning:</b>      | The line being queried does not have the specified SLE feature. The command aborts.                                                                                                                                                                                                                              |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                             |
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | <i>UNABLE TO ACCESS LIST DATA</i>                                                                                                                                                                                                                                                                                |
| <b>Meaning:</b>      | The system is unable to access the list data associated with an SLE feature. This might occur during heavy office usage. The command aborts.                                                                                                                                                                     |
| <b>Actions:</b>      | Reissue the request during low traffic periods. If the same response occurs, contact the next level of maintenance support.                                                                                                                                                                                      |

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**qsl** (end)

---

**MAP responses with associated meanings and actions (Sheet 4 of 4)**

|                      |                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;qsl</b>                                                                                                     |
| <b>MAP response:</b> | <i>UNABLE TO FIND FEATURE DATA</i>                                                                                 |
| <b>Meaning:</b>      | Either the information you entered is incorrect or data corruption has occurred. The command aborts.               |
| <b>Actions:</b>      | Confirm the validity of the data you entered. If the data is valid, contact the next level of maintenance support. |

## **traceci**

---

### **Type**

The traceci command is a nonmenu command.

### **Target**

The command target for the ALL.

### **Description**

The traceci command

AINTRACE tool recognizes the ExtendedRinging parameter in a Send\_To\_Resource response message.

### **Release history**

#### **NA012**

Feature 59006320 allows the AINTRACE tool to recognize the ExtendedRinging parameter in a Send\_To\_Resource response message.

### **Limitations and restrictions**

The traceci command has no limits or restrictions.

### **Syntax**

There is no change to the traceci command syntax.

### **Example**

There is no change to the traceci command example.

### **Responses**

During an ONP from a release prior to NA012, SDS trigger item definitions are include overriding line attributes functionally equivalent to the SDS trigger with an associated tuple in table PODPATTR. Where a PODPATTR tuple is found that applies to an existing trigger item, the LARP option is added to the trigger item and datafilled with the overriding line attributes specified by PODPATTR. Table PODPATTR is not modified by this enhancement of SDS trigger item definitions. Any PODPATTR tuple that is not matched to at least one trigger item is sent to TRACECI output.

---

**traceci** (end)

---

**Responses**

The following table explains possible responses to the traceci command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | >TRACECI OFFICE NOPROMPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>MAP response:</b> | >PODPATTR tuple unconverted, key = <digits>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Meaning:</b>      | During ONP, a trigger item match was not found for this PODPATTR tuple.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Actions:</b>      | After the completion of ONP, the user should review the unconverted PODPATTR tuples and verify against the trigger items to determine if a match was expected. If a match was expected, the user manually updates the trigger item by adding a LARP option through table control and specifying the values that were datafilled in PODPATTR.                                                                                                                                                         |
| <b>Command:</b>      | >TRACECI OFFICE NOPROMPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>MAP response:</b> | PODPATTR tuple converted, key = <digits>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Meaning:</b>      | During ONP, a trigger item match was found for this PODPATTR tuple, but the PODPATTR conversion record failed and only CONVERTED tuples are reported.                                                                                                                                                                                                                                                                                                                                                |
| <b>Actions:</b>      | After the completion of ONP, the user should review the entire PODPATTR table against the converted PODPATTR tuples that were reported to determine the unconverted PODPATTR tuples. The user should review the unconverted PODPATTR tuples and verify against the trigger items to determine if a match was expected. If a match was expected, the user manually updates the trigger item by adding a LARP option through table control and specifying the values that were datafilled in PODPATTR. |



## TRAYER

---

### Type

The TRAYER command is a nonmenu command.

### Target

The command target for the TRAYER command is SuperNode.

### Description

TRAYER is a tool that traverses through all translations tables and displays the resulting route for a call. TRAYER can operate in three modes: TRACE, NO\_TRACE, and BOTH.

When TRAYER is operating in the TRACE mode, the content of the translation tables is displayed as TRAYER traverses through them.

When TRAYER is operating in the NO\_TRACE mode, the content of the translations tables is not displayed. This mode only displays the translation result.

When TRAYER is operating in BOTH mode, TRAYER first operates in the TRACE mode and displays the content of all the translations tables through which it traverses. Then TRAYER switches to NO\_TRACE mode and appends the translation results to the end of the TRACE results.

### Option AINCHG

Option AINCHG simulates the following scenarios:

- charge number digits sent by an SCP when option AINRES is present and the response contains parameter ChargeNumber, or
- ANI digits for MF trunks, CPN digits for PRI trunks, and charge number digits for ISUP trunks

**Note:** TRAYER can simulate three responses: Analyze\_Route, Forward\_Call and Continue. Only the first two can contain parameter ChargeNumber.

### Option AINDENY

Option AINDENY provides a way of excluding individual lines from triggering for:

- particular trigger item IDs of PFC or SFC trigger types
- all group-subscribed trigger items of PFC or SFC trigger types

### **Option AINMQG**

Option AINMQG can create query messages at certain TDPs. TRAVER saves the query message to a file that can be subsequently loaded into the TSTQuery tool for transmission to an off-board processor (for example, an SCP or adjunct).

The AINMQG output can include NatureOfCarrier in parameter CarrierID.

### **Option AINRES**

Option AINRES simulates the processing of certain response messages from an off-board processor. Response messages are: Analyze\_Route, Forward-Call, Continue, and Authorize\_Termination. TRAVER displays the AIN information encountered after the specified response is received. None of the pre-query information is displayed.

## **Release history**

This section identifies new or changed commands, and the applicable software release.

### **SN06 (DMS)**

Feature A89007340 introduces the packet conditional route selector PKT which can be used to conditionally route traffic to different trunk groups based on the fabric of the originator.

### **NA015**

Feature 59022533 adds option AINDENY.

### **CCM14**

Feature 59016521 adds sub parameters CarrierUsage (CU) and NatureOfCarrier (NOC) to Analyze\_Route (AR) and Forward\_Call (FC) response parameters.

The AINMQG output is enhanced to include NatureOfCarrier in parameter CarrierID.

### **CCM08**

Feature AR2230 changes the TRAVER command to support duplicate directory numbers (DN). Before the introduction of the Duplicate NXX support feature, the switch could not distinguish between ambiguous DNs. With this feature, when users enter a seven-digit DN, and the office code

(NXX) exists under multiple serving numbering plan areas (SNPA), the system re-prompts the user for the full ten-digit DN.

## Limitations and restrictions

Because the NA011 product release removed triggers that were part of the AIN 0.0 Primer product, TRAVER no longer displays warning messages for the triggers that follow:

- 3/6/10 POTS
- DN
- \*XX

**Note:** For SN06 (DMS), Traver does not specify the switching fabric of the originator for trunk originated calls. When TRAVER encounters a route with the CND PKT selector, ENET (Enhanced Network) is assumed for TDM trunk groups and the packet network is assumed for DPT (BICC and SIP\_T) trunk groups.

The DPT SPM (Spectrum Peripheral Module) is considered an ENET peripheral.

## Syntax

There is no change to the TRAVER command syntax.

## Example

The following table provides an example of the TRAVER command.

### Command example

|                             |                                              |
|-----------------------------|----------------------------------------------|
| <b>Command:</b>             | <b>&gt;TRAVER tr IC_TDM_GRP 4025501212 b</b> |
| <b>Description of task:</b> | Conditionally route traffic.                 |

**Command example**

```
MAP response: TABLE TRKGRP
 IC_TDM_GRP IT 0 ELO NCRT 2W NIL MIDL 919 NPRT NSCR 919
 919 555 N N $
 TABLE OFCVAR
 AIN_OFFICE_TRIGGRP TIID
 TABLE HNPACONT
 919 Y 993 2 (64) (1) (0) (0) 0 $
 . SUBTABLE HNPACODE
 . 402 402 FRTE 402
 . SUBTABLE RTEREF
 . 402 CND PKT ENET SK 2
 . S D OG_SIPT_GRP
 . CND ALWAYS SK 1
 . S D OG_TDM_GRP
 . EXIT TABLE RTEREF
 EXIT TABLE HNPACONT
 LNP00100 SOC Option is IDLE.
 LNP Info: Called DN is not resident.
 LNP Info: HNPA results are used.
 AIN Info Collected TDP: no subscribed trigger.
 AIN Info Analyzed TDP: no subscribed trigger.

 +++ TRAVER: SUCCESSFUL CALL TRACE +++

 DIGIT TRANSLATION ROUTES

 1 OG_TDM_GRP 4025501212 ST

 TREATMENT ROUTES. TREATMENT IS: GNCT
 1 T120

 +++ TRAVER: SUCCESSFUL CALL TRACE +++
```

**Command example**

|                     |                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Explanation:</b> | The incoming TDM group may have all packet members or all ENET based members or a combination of the two. The route chosen by TRAVER assumes the originator was on the ENET. The crafts person must look at the actual route list (route 402 in the example below) to see that the PKT routing selector is being used and actual terminator may be OG_SIPT_GRP. |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Example**

The following table provides an example of the TRAVER command.

**Command example**

|                             |                                           |
|-----------------------------|-------------------------------------------|
| <b>Command:</b>             | <b>&gt;TRAVER I 6711501 b22 b</b>         |
| <b>Description of task:</b> | Display the resulting route for the call. |

**Command example**

**MAP response:**        >TRAVER l 6711501 b22 b  
                         TABLE IBNLINES  
                         HOST 01 0 00 06 0 DT STN IBN 6711051 COMKODAK 0 0 613 \$  
                         TABLE DNATTRS  
                         TUPLE NOT FOUND  
                         ...  
                         AIN Orig Attempt TDP: no subscribed trigger.  
                         ...  
                         TABLE IBNXLA: XLANAME POTSXLA  
                         TUPLE NOT FOUND  
                         Default is to assume SPEED CODE usage  
                         AIN Info Collected TDP: no subscribed trigger.  
                         ...  
                         ...  
                         AIN Info Analyzed TDP: trigger criteria not met.  
  
                         +++ TRAVER: SUCCESSFUL CALL TRACE +++  
  
                         SPEED CALL not supported by TRAVER  
  
                         +++ TRAVER: SUCCESSFUL CALL TRACE +++

**Explanation:**        The warning that notifies the user that the AIN 0.0 Primer product is retired was introduced in the NA011 product release. In that release, because the TABXFER process allowed the datafill for the AIN 0.0 \*XX trigger to transfer from the active side to the inactive side during an ONP, this warning was necessary to inform the user that even though the datafill for AIN 0.0 triggers was present on the switch, the AIN 0.0 Primer product was retired.

                         In the NA011 product release, for a PVN RAD trigger, TRAVER displays a similar message that says the AIN 0.0 Primer product is retired. The message also says that the PVN RAD trigger is not retired and is still available. This message is no longer displayed as the PVN RAD trigger is still available.

# Responses

The following table explains possible responses to the TRAVER command.

## MAP responses with associated meanings and actions

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;TRAVER I 6212500 6218888 b</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MAP response:</b> | <pre> &gt;TRAVER l 6212500 6218888 b TABLE LINEATTR 32 1FR NONE NT NSCR 0 613 LTOP L613 TSPS 10 NIL NILSFC NILLATA 0 NIL 00 613_P621_407 L621_LATA1_407 \$ LCABILL OFF - BILLING DONE ON BASIS OF CALLTYPE ... TABLE HNPACONT 613 Y 717 2 (17) (1) (0) (0) 2 \$ . SUBTABLE HNPACODE . KEY NOT FOUNT . REAL VALUE IS: VCT VACT N TABLE TMTCNTL LNT (46) . SUBTABLE TREAT . BLDN Y T OFRT 52 . TABLE OFRT . 52 S D VCA . S D *OFLO . S D LKOUT . EXIT TABLE OFRT  +++ TRAVER: SUCCESSFUL CALL TRACE +++  TREATMENT ROUTES. TREATMENT IS: VACT 1 VCA 2 *OFLO 3 LKOUT  +++ TRAVER: SUCCESSFUL CALL TRACE +++ </pre> |

**MAP responses with associated meanings and actions (Continued)**

**Meaning:**

The warning that notifies the user that the AIN 0.0 Primer product is retired was introduced in the NA011 product release. In that release, because the TABXFER process allowed the datafill for the AIN 0.0 3/6/10 POTS trigger to transfer from the active side to the inactive side during an ONP, this warning was necessary to inform the user that even though the datafill for AIN 0.0 triggers was present on the switch, the AIN 0.0 Primer product was retired.

However in the NA012 product release, AIN 0.0 triggers are not provisionable. The TABXFER process does not allow datafill for the AIN 0.0 trigger to transfer from the active side (running on a NA09/10/11 load) to the inactive side during an ONP. Therefore, these warnings are no longer displayed.

**Actions:**

System action:

In the NA012 product release, when the user used the same called digits as used for the AIN 0.0 3/6/10 POTS trigger in the NA011 product release, TRAVEL did not display the warning to indicate that the AIN 0.0 Primer product was retired and was not functional as of the NA012 product release.

User action:

Before a software upgrade to the NA012 product release, remove or replace the AIN 0.0 3/6/10 POTS trigger. Similar triggers are available in AIN 0.1 Essentials and AIN 0.2 Enablers. Refer to *AIN Essentials Service Implementation Guide (297-5161-021)* and *AIN Enablers Service Implementation Guide (297-5161-022)* for information about these triggers.

**Command:**

**>TRAVEL I 6212500 6218888 b**



**MAP responses with associated meanings and actions (Continued)**

```

MAP response: >TRAVER 1 6212500 6218889 b
 TABLE LINEATTR
 32 1FR NONE NT NSCR 0 613 LTOP L613 TSPS 10 NIL NILSFC
 NILLATA 0 NIL 00 N $
 LCABILL OFF - BILLING DONE ON BASIS OF CALLTYPE
 ...
 TABLE DNINV
 613 621 8889 D BLDN
 TABLE DNFEAT
 TABLE DNFEAT
 TUPLE NOT FOUND
 TABLE DNATTRS
 TUPLE NOT FOUND
 TABLE DNGRPS
 TUPLE NOT FOUND
 TABLE TMTCNTL
 LNT (46)
 . SUBTABLE TREAT
 . BLDN Y T OFRT 50
 . TABLE OFRT
 . 50 S D VCA
 . S D *OFLO
 . S D LKOUT
 . EXIT TABLE OFRT
 LNP Info: Called DN is not resident.
 LNP Info: HNPA results are used.
 TABLE LCASCRN
 ...
 AIN Info Analyzed TDP: trigger criteria not met.

 +++ TRAVER: SUCCESSFUL CALL TRACE +++

 1 TREATMENT ROUTES. TREATMENT IS: BLDN
 1 VCA
 2 *OFLO
 3 LKOUT

 +++ TRAVER: SUCCESSFUL CALL TRACE +++

```

**MAP responses with associated meanings and actions (Continued)**

**Meaning:**

The warning that notifies the user that the AIN 0.0 Primer product is retired was introduced in the NA011 product release. In that release, because the TABXFER process allowed datafill for the AIN 0.0 DN trigger to transfer from the active side to the inactive side during an ONP, this warning was necessary to inform the user that even though the datafill for the AIN 0.0 triggers was present on the switch, the AIN 0.0 Primer product was retired.

However in the NA012 product release, AIN 0.0 triggers are not provisionable. The TABXFER process does not allow the datafill for the AIN 0.0 trigger to transfer from the active side (running on a NA09/10/11 load) to the inactive side during an ONP. Therefore, these warnings are no longer displayed.

**Actions:**

System action:

In the NA012 product release, when the user used the same called digits as used for the AIN 0.0 DN trigger in the NA011 product release, TRAVER did not display the warning to indicate that the AIN 0.0 Primer product was retired and was not functional as of the NA012 product release.

User action:

Before a software upgrade to the NA012 product release, remove or replace AIN 0.0 DN trigger datafill. Similar triggers are available in AIN 0.1 Essentials and AIN 0.2 Enablers. Refer to *AIN Essentials Service Implementation Guide* (297-5161-021) and *AIN Enablers Service Implementation Guide* (297-5161-022) for information about these triggers.

**Command:**

**>TRAVER I 6212500 6218889 b**

**MAP responses with associated meanings and actions (Continued)**

```

MAP response: >TRAVER 1 6212500 6218889 b
 TABLE LINEATTR
 32 1FR NONE NT NSCR 0 613 LTOP L613 TSPS 10 NIL NILSFC
 NILLATA 0 NIL 00 N $
 LCABILL OFF - BILLING DONE ON BASIS OF CALLTYPE
 ...
 ...
 TABLE DNINV
 613 621 8889 D BLDN
 TABLE DNFEAT
 TABLE DNFEAT
 TUPLE NOT FOUND
 TABLE DNATTRS
 TUPLE NOT FOUND
 TABLE DNGRPS
 TUPLE NOT FOUND
 TABLE TMTCNTL
 LNT (46)
 . SUBTABLE TREAT
 . BLDN Y T OFRT 50
 . TABLE OFRT
 . 50 S D VCA
 . S D *OFLO
 . S D LKOUT
 . EXIT TABLE OFRT
 LNP Info: Called DN is not resident.
 LNP Info: HNPA results are used.
 TABLE LCASCRCN
 ...
 AIN Info Analyzed TDP: trigger criteria not met.

 +++ TRAVER: SUCCESSFUL CALL TRACE +++

 1 TREATMENT ROUTES. TREATMENT IS: BLDN
 1 VCA
 2 *OFLO
 3 LKOUT

 +++ TRAVER: SUCCESSFUL CALL TRACE ++

```

**MAP responses with associated meanings and actions (Continued)**

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b> | <p><b>Explanation:</b></p> <p>The warning that notifies the user that the AIN 0.0 Primer product is retired was introduced in the NA011 product release. In that release, because the TABXFER process allowed datafill for the AIN 0.0 DN trigger to transfer from the active side to the inactive side during an ONP, this warning was necessary to inform the user that even though datafill for the AIN 0.0 triggers was present on the switch, the AIN 0.0 Primer product was retired.</p> <p>However in the NA012 product release, AIN 0.0 triggers are not provisionable. The TABXFER process does not allow datafill for the AIN 0.0 trigger to transfer from the active side (running on a NA09/10/11 load) to the inactive side during an ONP. Therefore, these warnings are no longer displayed.</p> |
| <b>Actions:</b> | <p><b>System action:</b></p> <p>In the NA012 product release, when the user used the same called digits as used for the AIN 0.0 DN trigger in the NA011 product release, TRAVER did not display the warning to indicate that the AIN 0.0 Primer product was retired and was not functional as of the NA012 product release.</p> <p><b>User action:</b></p> <p>Before a software upgrade to the NA012 product release, remove or replace AIN 0.0 DN trigger datafill. Similar triggers are available in AIN 0.1 Essentials and AIN 0.2 Enablers. Refer to <i>AIN Essentials Service Implementation Guide (297-5161-021)</i> and <i>AIN Enablers Service Implementation Guide (297-5161-022)</i> for information about these triggers.</p>                                                                       |
| <b>Command:</b> | <p><b>&gt;TRAVER I 6711501 b22 b</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

# MAP responses with associated meanings and actions (Continued)

**MAP response:**

```

>TRAVER l 6711501 b22 b
TABLE IBNLINES
HOST 01 0 00 06 0 DT STN IBN 6711051 COMKODAK 0 0 613 $
TABLE DNATTRS
TUPLE NOT FOUND
...
AIN Orig Attempt TDP: no subscribed trigger.
...
TABLE IBNXLA: XLANAME POTSLA
TUPLE NOT FOUND
Default is to assume SPEED CODE usage
AIN Info Collected TDP: no subscribed trigger.
...
AIN Info Analyzed TDP: trigger criteria not met.

+++ TRAVER: SUCCESSFUL CALL TRACE +++

SPEED CALL not supported by TRAVER

+++ TRAVER: SUCCESSFUL CALL TRACE +++

```

**Meaning:**

The warning that notifies the user that the AIN 0.0 Primer product is retired was introduced in the NA011 product release. In that release, because the TABXFER process allowed the datafill for the AIN 0.0 \*XX trigger to transfer from the active side to the inactive side during an ONP, this warning was necessary to inform the user that even though the datafill for the AIN 0.0 triggers was present on the switch, the AIN 0.0 Primer product was retired.

In the NA011 product release, for a PVN RAD trigger, TRAVER displays a similar message that says the AIN 0.0 Primer product is retired. The message also says that the PVN RAD trigger is not retired and is still available. This message is no longer displayed as the PVN RAD trigger is still available.

**Actions:**

System action:

In the NA012 product release, when the user used the same called digits as used for the AIN 0.0 \*XX trigger in the NA011 product release, TRAVERSE did not display a warning to indicate that the AIN 0.0 Primer product was retired and was not functional as of the NA012 product release.

User action:

Before a software upgrade to the NA012 product release, remove or replace AIN 0.0 \*XX trigger datafill. Similar triggers are available in AIN 0.1 Essentials and AIN 0.2 Enablers. Refer to *AIN Essentials Service Implementation Guide (297-5161-021)* and *AIN Enablers Service Implementation Guide (297-5161-022)* for information about these triggers.

Analyze\_Route (AR) and Forward\_Call (FC) response parameters can include sub parameters CarrierUsage (CU) and NatureOfCarrier (NOC).



## trnslvf

---

### Type

The trnslvf command is available at the TTP\_ level of the MAP menu.

### Target

The command target for the trnslvf command is SuperNode.

### Description

The trnslvf command displays routing data for a call originated from a posted trunk. This utility is similar to traver, but the utility invokes from the TTP level of the MAP menu.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### CCM12

Feature 59017218 allows operating company personnel to reenter the trnslvf command (through the t parameter) when the translation verification fails, or when the results are not expected.

### Limitations and restrictions

The trnslvf command has no limits or restrictions.

### Syntax

There is no change to the trnslvf command syntax.

### Example

There is no change to the trnslvf command example.

### Responses

There is no change to the trnslvf command responses.

---

## TSTQUERY

---

### Type

The TSTQUERY command is a nonmenu command.

### Target

The command target is BRISC.

### Description

The TSTQUERY tool is a menu-driven utility that allows operating company personnel to send AIN test queries to an SCP and display the incoming responses from the SCP.

The TSTQUERY tool provides the following capabilities:

- Populates the parameters of an AIN query message.
- Reads query message information from a file.
- Saves query message information to a file.
- Sends the query message.
- Allows responses to conversation messages.
- Generates a log of outgoing and incoming messages.
- Overwrites the T1 timer for a given test query.
- Supports CCS7 and Ethernet transport protocol.
- Provides on-line help.

### TSTQUERY menu commands

When operating company personnel initiate a TSTQUERY session, a menu appears on the MAP terminal display. The following paragraphs describe the menu options.

Operating company personnel can use abbreviated parameter names with commands ClrParm, ListParm, and SeeParm. The abbreviated parameter names display on the screen when commands SetMsg or ListParm are invoked.

### Command QUIT

Command QUIT terminates the current TSTQUERY session. To avoid loss of information, use the Save command to store the information in a file. When operating company personnel invoke command QUIT in the middle of a transaction, the transaction and all parameter values are lost.



## **TSTQUERY** (continued)

---

### **Command READ**

Command READ reads the file from a previously saved query. The command prompts for the name of the file that contains the query information. Command READ reuses the existing READ CI command. Rules for using command CI READ apply to the TSTQUERY READ command.

### **Command SAVE**

Command SAVE saves the contents of a query to a file. The system prompts the user for the device name and file name. File access occurs using the READ command for future queries. SAVE overwrites existing files with the same name.

### **Command SetAppl**

Command SetAppl allows the user to select the AIN application to be tested, such as R01 or R02. When a value for this command is not specified, the screen displays all possible values.

For AIN, the menu option SetAppl accepts R02 as a valid application message set. This value displays in the application field of the MAP CI display.

### **Command SeTrnsp**

Command SeTrnsp allows the user to select the transport medium. The DMS-100 switch supports signaling system 7 (SS7) for AIN. The user specifies the GTTname and GTTsource.

### **Command SeT1**

Command SeT1 allows the user to overwrite the value of the T1 timer for a given test query. The T1 timer times the response. When a response is not received from the SCP within the time-out period, a time-out error occurs and the TSTQUERY tool informs the AIN generic message handler of this event by sending a T1 error message. When a T1 timer value is not specified, command SeT1 uses a default value of three seconds.

### **Command SetMsg**

Command SetMsg allows the user to specify an AIN message for the current query. When entered with a valid AIN message, this command displays the allowed parameters for the message. Each parameter has a command that allows the user to set its value. When a value is not specified following command SetMsg, acceptable values for the message display on the screen.

### **Command ClrParm**

Command ClrParm allows the user to clear the value of a parameter. When Clrparm ALL is entered, the system clears the values of all specified parameters. Clearing the value of a parameter indicates that the parameter is not sent.

---

**TSTQUERY** (continued)

---

**Command ListParm**

Command ListParm lists all the parameters that are valid for the message specified for the current query.

Parameter CarrierUsage is a valid parameter.

**Command SeeParm**

Command SeeParm allows the user to see the current values of parameters, one parameter at a time or for all specified parameters. The command allows the user to view the specified application, transport, or message. The valid options for this command are ALL, application, transport, message, and the name of a parameter.

**Command Send**

Command Send allows the user to send an AIN message to the SCP, depending on the application chosen by SetApp1. The response can be saved by specifying a valid file and device name.

**Limitations and restrictions**

The TSTQUERY tool does not support Create\_Call.

For subcommand SeeParm, only value NatureOfCarrier will display. Because value NatureOfCarrier has a default value of NoNOCProvided, users cannot set this value.

**Syntax**

There is no change to the TSTQUERY command syntax.

T\_Resource\_Available is a valid operation for command SetMsg.

**Example**

There is no change to the TSTQUERY command example.

**Responses**

There is no change to the TSTQUERY command responses.

The TSTQUERY tool recognizes parameter ExtendedRinging in a Send\_To\_Resource response message.

**Release history****NA017**

Feature 59037100 enhances the TSTQUERY tool to support the Timeout and Disconnect outgoing SSP call-related message.

## **TSTQUERY** (end)

---

**NA016** Feature 59037140 enhances the TSTQUERY tool to display the Connect To Resource (CTR) parameters in the incoming conversation/response message.

Feature 59028621 enhances the TSTQUERY tool to support the display of TSTRCTimer parameter in the Send\_To\_Resource (STR) and Call\_Info\_To\_Resource (CITR) messages from the SCP.

Feature 59028643 modifies the TSTQUERY tool to display the Carrier parameters in the incoming Send\_To\_Resource conversation message.

**NA015** Feature 59022523 enhances the TSTQUERY tool to support the display of DPConverter parameter in the Send\_To\_Resource and Collect\_Info message from the SCP.

**NA014** Feature 59016005 adds operation T\_Resource\_Available to command SetMsg.

Feature 59016521 modifies command ListParm to accept parameter CarrierUsage.

**NA012** Feature 59006320 allows the TSTQUERY tool to recognize parameter ExtendedRinging in a Send\_To\_Resource response message.

Feature 59016521 modifies command ListParm to accept parameter CarrierUsage.

---

**UAR**

---

**Type**

The User activity record (UAR) command is a nonmenu command.

**Target**

The command target for the UAR command is BRISC.

**Description**

This command allows TAS personnel to view a recording of commands entered from a maintenance and administration position (MAP) terminal or text telephone (TTY). Operating company personnel can view the records to help determine the cause of user activity problems.

**Release history****MMP13**

Feature 59012414 adds this command in MMP13.

**Limitations and restrictions**

The following limits and restrictions apply to the UAR command:

- The system cannot record PMDEBUG subcommands in the UAR circular buffer.
- The system can record commands from a maximum of 64 different userids in the UAR circular buffer.
- The command line in the UAR circular buffer can have a maximum length of 132 characters.
- The UAR circular buffer can have a maximum size of 64 kbyte.
- The system does not maintain the UAR circular buffer during DUMP phases.
- When the system reloads the image from a tape, the system restores UAR information.

**Syntax**

The UAR command syntax is as follows:

```
UAR [<NUMBER> {1 to 1000}]
 [<USERID> STRING]
```

**UAR** (continued)

---

The following table describes the parameters and variables of the UAR command.

**Command parameter and variable descriptions**

| Parameters and variables | Value               | Description                                                                                                                                                                                                    |
|--------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NUMBER                   | 1 to 1000           | This field indicates the number of lines from the UAR circular buffer for the system to display. The value is a number between 1 and 1000. This parameter is optional.                                         |
| USERID                   | alphanumeric string | This field indicates a user identification used to log on to the system. The system displays the recent input lines belonging to that userid. The value is an alphanumeric string. This parameter is optional. |

**Example**

The following table provides an example of the UAR command.

**Command example**

|                             |                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;UAR 3 USERVDU2</b>                                                                                                                                       |
| <b>Description of task:</b> | The user requests the system to display a specified amount of activity rows for a specified user.                                                               |
| <b>MAP response:</b>        | 30/5 2:55:52 USERVDU2 TERM0279 176) table mtamdrve<br>30/5 2:55:48 USERVDU2 TERM0279 175) table mtahoriz;lis al<br>30/5 2:55:24 USERVDU2 TERM0279 174) quit all |
| <b>Explanation:</b>         | The system displays the last three commands from userid USERVDU2 with time stamps and command entry location.                                                   |

**Responses**

The following table explains possible responses to the UAR command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;UAR</b>                                                             |
| <b>MAP response:</b> | NO DATA STORE                                                              |
| <b>Meaning:</b>      | The system does not have the necessary memory for the UAR circular buffer. |
| <b>Actions:</b>      | The system requires more memory to allocate the UAR circular buffer.       |

---

**UAR** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;UAR 1002</b>                                                                                                               |
| <b>MAP response:</b> | EITHERH incorrect optional parameter(s) OR too many parameters                                                                    |
| <b>Meaning:</b>      | Operating company personnel entered a value in the NUMBER parameter that is not between 1 and 1000 or entered an incorrect value. |
| <b>Actions:</b>      | Enter a value in the NUMBER parameter that is between 1 and 1000.                                                                 |

## varantst

---

### Type

The varantst command is a nonmenu listed command.

### Target

The command target for the varantst command is POWERPC, BRISC.

### Description

The varantst command is used to test from the CI level variable announcement phrases (for example, for integer, price and number) without actually making a call.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### MMP15

Feature A59023749 (IN Enhancements) introduces the varantst command.

### Limitations and restrictions

The varantst command has no limits or restrictions.

### Syntax

The following table describes the parameters and variables of the varantst command.

#### Command parameter and variable descriptions

| Command  | Parameters and variables                                                                                                                                                                                                                                                                                                                                                                      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| varantst | <p>&lt;FTRANNC(GSP)/AINANNS(MMP) Index&gt;{1 to 32 767}</p> <p>&lt;Digits&gt; STRING<br/>Separate digits with one of the following:</p> <ul style="list-style-type: none"><li>• A - Integer</li><li>• B - Number</li><li>• E - Price</li></ul> <p>Example: A123 is an integer of value 123 and B5551212 is a phone number 555 1212.</p> <p>&lt;DRU Index - MMP(1) GSP(2)&gt;{1 to 32 767}</p> |

**varantst** (continued)**Example**

The following table provides an example of the varantst command.

**Command example**

|                             |                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;varantst 21 A123 1</b>                                                                                                                      |
| <b>Description of task:</b> | List integer variable phrases for a given digit string.                                                                                            |
| <b>MAP response:</b>        | Logical Phrase List (DRMUSERS)<br>STEP_D21<br>ENG_IN_VAR<br><br>Physical Phrase List:<br>STEP_D21<br>IN_ONE<br>IN_HUNDRED<br>IN_TWENTY<br>IN_THREE |
| <b>Explanation:</b>         | The integer variable phrases are listed.                                                                                                           |

**Responses**

The following table explains possible responses to the varantst command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;varantst 21 B567 1</b>                                                                                                      |
| <b>MAP response:</b> | Logical Phrase List (DRMUSERS)<br>STEP_D21<br>ENG_IN_VAR<br><br>Physical Phrase List:<br>STEP_D21<br>IN_FIVE<br>IN_SIX<br>IN_SEVEN |
| <b>Meaning:</b>      | List number variable phrases for a given digit string.                                                                             |
| <b>Actions:</b>      | No action is required.                                                                                                             |
| <b>Command:</b>      | <b>&gt;varantst 21 E45345367 1</b>                                                                                                 |



## MAP responses with associated meanings and actions (Sheet 2 of 2)

|                      |                                                                                                                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Logical Phrase List (DRMUSERS)<br>STEP_D21<br>ENG_IN_VAR<br><br>Physical Phrase List:<br>STEP_D21<br>IN_FOUR<br>IN_HUNDRED<br>IN_AND<br>IN_FIFTY<br>IN_THREE<br>IN_THOUSAND<br>IN_FOUR<br>IN_HUNDRED<br>IN_AND<br>IN_FIFTY<br>IN_THREE<br>IN_CUR_UNITS_ENG<br>IN_AND<br>IN_SIXTY<br>IN_SEVEN<br>IN_CUR_SUBUS_ENG |
| <b>Meaning:</b>      | List price variable phrases for a given digit string.                                                                                                                                                                                                                                                            |
| <b>Actions:</b>      | No action is required.                                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | >varantst 21 A123 1                                                                                                                                                                                                                                                                                              |
| <b>MAP response:</b> | Failed to find DRMUSER entry for FTRANNC index<br><br>Parameter 1 is of wrong type.                                                                                                                                                                                                                              |
| <b>Meaning:</b>      | Parameter 1 is of the wrong type.                                                                                                                                                                                                                                                                                |
| <b>Actions:</b>      | Enter the correct DRU Index type.                                                                                                                                                                                                                                                                                |

---

## 23A SWAPPTCI level commands

---

This chapter provides an overview of the SWAPPTCI level. This chapter also provides detailed information on new or changed commands in the SWAPPTCI level.

Use the SWAPPTCI command to rename a pretranslator name in table STDPRCT. Renaming a pretranslator name will change the name in all tables that reference that pretranslator.

The following table alphabetically lists the commands available at the SWAPPTCI level.

| Command |
|---------|
| help    |
| print   |
| quit    |
| rename  |

### Description

The SWAPPTCI contains the commands available from the basic CI level.

### How to access the SWAPPTCI level

No command increments are required to issue SWAPPTCI commands.

### How to return to the CI

You are at the CI.

>

### MAP display

There is no map display of the SWAPPTCI level.



## **help**

---

### **Type**

The help command is a menu command.

### **Target**

The command target for the help command is ALL.

### **Description**

The help command interpreter (CI) command allows the operating company personnel to see the syntax and explanation of the SWAPPTCI.

### **Release history**

This section identifies if the command is new or changed, and the applicable software release.

#### **NA014**

The help command was introduced in the NA014 release.

### **Limitations and restrictions**

The help command has no limits or restrictions.

## help (end)

---

### Syntax

The help command syntax is as follows:

help

### Example

The following table provides an example of the help command.

#### Command example

|                             |                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > help                                                                                                                                                                                               |
| <b>Description of task:</b> | Use the HELP command to see the syntax and explanation of the SWAPPTCI command.                                                                                                                      |
| <b>MAP response:</b>        | HELP: PRINTS THE DESCRIPTION OF SUB COMMANDS<br>PRINT: PRINT THE PRETRANSALTOR NAMES IN TABLE STDPRTCT<br>QUIT: QUIT SWAPPTCI EDITOR<br>RENAME: RENAME THE PRETRANSLATOR NAME <OLDNAME><br><NEWNAME> |
| <b>Explanation:</b>         | Use the HELP command to see the syntax and explanation of the SWAPPTCI command.                                                                                                                      |

## **print**

---

### **Type**

The print command is a menu command.

### **Target**

The command target for the print command is ALL.

### **Description**

The print command interpreter (CI) command allows the operating company personnel to see the pretranslator names in table STDPRTCT.

### **Release history**

This section identifies if the command is new or changed, and the applicable software release.

#### **NA014**

The print command was introduced in the NA014 release.

### **Limitations and restrictions**

The print command has no limits or restrictions.

## **print** (end)

---

### **Syntax**

The print command syntax is as follows:

```
print
```

### **Example**

The following table provides an example of the print command.

#### **Command example**

|                             |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| <b>Command:</b>             | > <b>print</b>                                                          |
| <b>Description of task:</b> | Use the PRINT command to see the pretranslator names in table STDPRTCT. |
| <b>MAP response:</b>        | PRETRANSLATOR NAMES IN TABLE STDPRTCT<br>-----<br>NPRT<br>TEST          |
| <b>Explanation:</b>         | Displays the pretranslator names in table STDPRTCT.                     |

## quit

---

### Type

The quit command is a menu command.

### Target

The command target for the quit command is ALL.

### Description

The quit command interpreter (CI) command allows the operating company personnel to exit the SWAPPTCI command level.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### NA014

The quit command was introduced in the NA014 release.

### Limitations and restrictions

The quit command has no limits or restrictions.



## **quit** (end)

---

### **Syntax**

The quit command syntax is as follows:

```
quit
```

### **Example**

The following table provides an example of the quit command.

#### **Command example**

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| <b>Command:</b>             | > <b>quit</b>                                            |
| <b>Description of task:</b> | Use the QUIT command to exit the SWAPPTCI command level. |
| <b>MAP response:</b>        | CI:                                                      |
| <b>Explanation:</b>         | Exits the SWAPPTCI command level.                        |

**rename**

---

**Type**

The rename command is a menu command.

**Target**

The command target for the rename command is ALL.

**Description**

The rename command interpreter (CI) command allows the operating company personnel to rename the pretranslator name.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA014**

The rename command was introduced in the NA014 release.

**Limitations and restrictions**

The rename command has no limits or restrictions.

**rename** (end)

---

**Syntax**

The rename command syntax is as follows:

```
rename <oldname> <newname>
```

The following table describes the parameters and variables of the rename command.

**Command parameter and variable descriptions**

| Parameters and variables | Value        | Description                                    |
|--------------------------|--------------|------------------------------------------------|
| oldname                  | alphanumeric | the old pretranslator name                     |
| newname                  | alphanumeric | the new pretranslator name, up to 8 characters |

**Example**

The following table provides an example of the rename command.

**Command example**

|                             |                                                                                |
|-----------------------------|--------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt; rename TEST TEST1234</b>                                               |
| <b>Description of task:</b> | Use the rename command to rename the pretranslator name.                       |
| <b>MAP response:</b>        | PRETRANSLATOR NAME HAS BEEN MODIFIED                                           |
| <b>Explanation:</b>         | Renames the old pretranslator name with the new name.                          |
| <b>Action:</b>              |                                                                                |
| <b>Command:</b>             | <b>&gt; rename TEST TEST12345</b>                                              |
| <b>Description of task:</b> | Use the rename command to rename the pretranslator name.                       |
| <b>MAP response:</b>        | PLEASE ENTER THE NEW PRETRANSLATOR NAME LESS THAN OR EQUAL TO EIGHT CHARACTERS |
| <b>Explanation:</b>         | The NEWNAME value you entered was invalid.                                     |
| <b>Action:</b>              | Enter a value within the valid entry range.                                    |

---

## 24 SYS level commands

---

This chapter provides an overview of the SYS level. This chapter also provides detailed information on new or changed commands in the SYS level. The following table alphabetically lists the commands available at the SYS level.

**Table 24-1 SYS level commands**

| Command |
|---------|
| permit  |

### **SYS level**

#### **Description**

Use the SYS level of the MAP to access all the CI system commands related to system operation and common to all DMS switch types. The system directory (SYS) is a read-only (R/O) directory which resides permanently in your system table (ST).

#### **How to access the SYS level**

When you log in at the MAP, you access the SYS directory directly and all valid SYS level commands are available.

## permit

---

### Type

The permit command is a non-menu command.

### Target

The command target for the permit command is ALL.

### Description

Use the permit command to assign command classes to a user ID. This command defines a user ID and associated attributes to the DMS-100 switch. This command also changes attributes.

### Release history

This section identifies if the command is new or changed, as well as the applicable software release.

#### TL12

The permit command is new for the TL12 release.

### Limitations and restrictions

The following limits and restrictions apply to the permit command:

- If the office parameter ENHANCED\_PASSWORD\_CONTROL is turned on, the default value for the command class is ALL.
- If the office parameter ENHANCED\_PASSWORD\_CONTROL is turned off, the default value for the command class is zero (0). If you see overflow traps for store stack at the MAP or in the logs, the user ID has a stack which is too small for the performed task. Try to define the stack size again. If this fails, contact the next level of maintenance.
- If the office parameters ENHANCED\_PASSWORD\_CONTROL and ENHANCED\_COMMAND\_SCREENING are turned off, you must enter the user ID, the new password, and any remaining user ID attributes on the same line.
- Changed attributes are recognized immediately and a warm restart is not required. If the office parameter ENHANCED\_PASSWORD\_CONTROL is turned on, you must enter the user ID and the password on different lines. The password does not appear on the screen as you type it. For security, enter the password twice. You must enter any remaining entries on the line following the last password entry after the system validates the password. If you attempt to enter this data on the same line as the user ID, the system ignores the entries and prompts you to enter them again after the system accepts the password.

**permit** (continued)**Syntax**

The permit command syntax is as follows:

```
permit <USER NAME>
 [<PASSWORD>]
 [<PRIORITY>]
 [<STACK SIZE>]
 [<LANGUAGE>]
 [<COMMAND CLASS(ES)>]
```

The following table describes the parameters and variables of the permit command.

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USER NAME                | alphanumeric character string | This variable specifies the DMS user name.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PASSWORD                 | alphanumeric character string | This variable specifies the password assigned to the user at login time. The system ignores the password if the password is defined as an automatic login position. When the enhanced password control feature is turned on, you can only specify the password when you create a new user ID. You cannot use the feature to change an existing password. When the office parameter ENHANCED_PASSWORD_CONTROL is turned on, the password entry must be at least six characters long and alphanumeric. |
| PRIORITY                 | 1 to 4                        | This variable specifies the priority level at which the process of the user runs. A value of 4 is the highest priority. The default value is 4.                                                                                                                                                                                                                                                                                                                                                      |
| STACK SIZE               | 2000 to 10000                 | This variable specifies the size of the stack assigned to the process of the user. The default value is 7000, which is the minimum needed to execute SERVORD commands or issue query commands on the DMS-100.                                                                                                                                                                                                                                                                                        |

**permit** (continued)

---

**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value                                | Description                                                                                                                                                                                 |
|--------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LANGUAGE                 | DEFAULT, ENGLISH, FRENCH, or SPANISH | This variable sets the language of the output messages and input commands.                                                                                                                  |
| COMMAND CLASS(ES)        | 0 to 30                              | This variable specifies the classes available to the user. These numbers match the class numbers assigned to each command. These numbers also determine the commands that the user can use. |

**Example**

The following table provides an example of the permit command.

**Note:** Stack size must be 7000 or greater. If the stack size is below 7000, the user cannot execute SERVORD commands or issue query commands.

**Command example**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;permit fred passw 3 7000 english 1dms</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description of task:</b> | Create a user ID with attributes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MAP response:</b>        | NOTE: new stack size will NOT be in effect until...                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Explanation:</b>         | <p>This command string assigns a stack of 7000 when a user with an ID of fred logs in with the password of passw. This user has a level 3 priority, all system messages are produced and all entered commands are accepted in English, and the command class is 1dms.</p> <p><b>Note:</b> For this example, assume that the office parameter ENHANCED_PASSWORD_CONTROL is turned off. This setting allows you to enter the user ID, the new password, and the variable replacement values on the same line.</p> |

**Responses**

The following table explains possible responses to the permit command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                 |
|----------------------|---------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;permit fred passw</b>                                                    |
| <b>MAP response:</b> | ENHANCED PASSWORD CONTROL IS IN EFFECT<br>DO NOT ENTER PASSWORD ON COMMAND LINE |

**permit (end)****MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | You entered the password on the same line as the user ID when the ENHANCED_PASSWORD_CONTROL office parameter is turned on.                                                                                                                                                            |
| <b>Actions:</b>      | Enter the user ID and the password on different lines. The password will not appear on the screen as you type it. For security, enter the password twice. You must enter the remaining entries on the line following the last password entry after the system validates the password. |
| <b>Command:</b>      | <b>&gt;permit fred passw 3 7000 english 40</b>                                                                                                                                                                                                                                        |
| <b>MAP response:</b> | COMMAND PRIVILEGE MUST BE BETWEEN 0 AND 30                                                                                                                                                                                                                                            |
| <b>Meaning:</b>      | You entered a command class that is out-of-range.                                                                                                                                                                                                                                     |
| <b>Actions:</b>      | Enter the command class correctly.                                                                                                                                                                                                                                                    |
| <b>Command:</b>      | <b>&gt;permit fred passw 3 7000 english none</b>                                                                                                                                                                                                                                      |
| <b>MAP response:</b> | ENHANCED COMMAND SCREENING FEATURE REQUIRES USERS TO HAVE AT LEAST ONE COMMAND CLASS                                                                                                                                                                                                  |
| <b>Meaning:</b>      | You entered a value of none for the command class when the ENHANCED_COMMAND_SCREENING office parameter is turned on. This is no longer a valid entry.                                                                                                                                 |
| <b>Actions:</b>      | Enter a valid command class value or accept the default command class of zero.                                                                                                                                                                                                        |
| <b>Command:</b>      | <b>&gt;permit fred passw 3 7000 english supernode</b>                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | ILLEGAL PRIVILEGE CLASS                                                                                                                                                                                                                                                               |
| <b>Meaning:</b>      | One or more of the command classes is not a numeric value.                                                                                                                                                                                                                            |
| <b>Actions:</b>      | Enter a correct numeric value.                                                                                                                                                                                                                                                        |





---

## 25 TABAUDIT level commands

---

The following table alphabetically lists the commands available at the TABAUDIT level.

**Table 25-1**

| Command |
|---------|
|         |

### Description

Use the TABAUDIT level of the MAP to check data integrity without external guidance. TABAUDIT produces three types of reports. These reports consist of generic table checks, syntax checks, and table-specific data checks including routing checks. The reports are generated for each table as it is verified. The reports are maintained and displayed using a report utility.

**Note 1:** No two TABAUDIT sessions can verify the same table at the same time.

**Note 2:** If a non 10-digit number is datafilled in field BILLNUM for POTS or IBN virtual facility group (VFG) calls in tables VIRTGRPS or VFGDATA, a warning message is displayed indicating that the billing number must be 10 digits in length.

An automated version of TABAUDIT can be accessed using the TABAUDIT auto command. This subdirectory (called AUTOTABAUDIT) provides command functions that are similar to the TABAUDIT directory. In addition, the AUTOTABAUDIT subdirectory provides a command named time frame

that allows the user to define the start time for the system to automatically begin processing data integrity checks for specified tables.

Before a software upgrade to the NA012 product release, remove datafill for the AIN 0.0 triggers that follow:

- DN
- 3/6/10 POTS
- \*XX

Refer to NTP 297-5161-021, AIN Essential Service Implementation Guide for information about similar triggers.

### **How to access the TABAUDIT level**

Access the TABAUDIT level from the CI environment:

**>TABAUDIT**

### **How to return to the CI**

Return to the CI environment:

**> QUIT**

---

## 26 TFAN level commands

---

This chapter provides an overview of the TFAN level. This chapter also provides detailed information on new or changed commands in the TFAN level.

The following table alphabetically lists the commands available at the TFAN level.

**Table 26-1**

| Command  |
|----------|
| queryint |
| queryts  |

### Description

This TFAN directory provides two commands. The QUERYTS command outputs all the tuples in various tables that have the TRANSNO value specified by the command. The QUERYINT command outputs all the tuples in various tables that have the set of incoming and outgoing TRANSNO values specified by the command.

### How to access the TFAN level

Access the TFAN level from the CI environment:

```
> TFAN
```

### How to return to the CI

Return to the CI environment:

```
> quit
```

## queryint

---

### Type

The queryint command is a non-menu command.

### Target

The command target for the queryint command is BRISC.

### Description

The queryint command outputs all the uptles in various tables that have the set of incoming and outgoing TRAFSNO values as specified against the queryint command. The output of this command supports the sixteen character alphanumeric LINEATTR key.

### Release history

This section identifies if the command is new or changed, as well as the applicable software release.

#### CCM12

CCM12 software introduced the ability for the queryint command to support the output of the 16-character alphanumeric LINEATTR key.

### Limitations and restrictions

The queryint command has no limits or restrictions.

### Syntax

The queryint command syntax is as follows:

```
queryint Pams:<TSIN>{0 top 127}
 <TSOUT>{0 to 127}
 [ALL>{ALL}]
```

The following table describes the parameters and variables of the queryint command.

#### Command parameter and variable descriptions

| Parameters and variables | Value    | Description                                              |
|--------------------------|----------|----------------------------------------------------------|
| TSIN                     | 0 to 127 | This parameter is the Incoming traffic separation number |
| TSOUT                    | 0 to 127 | This parameter is the outgoing traffic separation number |

**queryint** (end)

**Example**

The following table provides an example of the queryint command.

**Command example**

|                             |                                                                    |             |                             |
|-----------------------------|--------------------------------------------------------------------|-------------|-----------------------------|
| <b>Command:</b>             | <b>&gt;QUERYINT 1 8</b>                                            |             |                             |
| <b>Description of task:</b> | Obtain QUERYINT output for specified incoming and outgoing TRAFSNO |             |                             |
| <b>MAP response:</b>        | Indx (IN-OUT)                                                      | INCOMING    | OUTGOING                    |
|                             | -----                                                              |             |                             |
|                             | 1 8                                                                | DD-REGNO =0 | OA-REGNO = 0 NP-REGNO = 0   |
|                             |                                                                    |             | LNATR 1001 LTG=10 LCC = 1FR |
|                             |                                                                    |             | LNATR ABCD LTG= 0 LCC = 1FR |
| <b>Explanation:</b>         |                                                                    |             |                             |

**Responses**

There is no change to the queryint command responses.



---

## 27 TOPSPOS level commands

---

This chapter provides an overview of the TOPSPOS level. This chapter also provides detailed information on new or changed commands in the TOPSPOS level.

The following table alphabetically lists the commands available at the TOPSPOS level.

**Table 27-1**

| Command  |
|----------|
| abtk     |
| bsy      |
| frls     |
| info     |
| listalms |
| listset  |
| next     |
| offl     |
| post     |
| quit     |
| rts      |
| tst      |

### Description

This level provides commands and status displays to maintain the IP TOPS Positions. A count of the number of TOPS positions in a given state is displayed below the TOPSIP alarm banner. Below this, the status of the



currently posted TOPS Position is displayed. Below this, the size of the post set is shown.

## How to access the TOPSPOS level

Access the TOPSPOS level from the CI environment:

```
> mapci;mtc;appl;topsip;topspos
```

## How to return to the CI

Return to the CI environment:

```
> quit all
```

## MAP display

The following figure shows an example of the MAP display at the TOPSPOS level.

**Figure 27-1 Example of a MAP display at the TOPSPOS level**

| CM          | MS | IOD | Net                 | PM        | CCS        | Lns   | Trks   | Ext    | APPL |
|-------------|----|-----|---------------------|-----------|------------|-------|--------|--------|------|
| .           | .  | .   | .                   | .         | .          | .     | .      | .      | .    |
| TOPSPOS     |    |     | OAMAP               |           | SDM        | SWMTC | SDMBIL | TOPSIP |      |
| 0 Quit      |    |     | .                   |           | .          | .     | .      | .      |      |
| 2 Post_     |    |     |                     |           |            |       |        |        |      |
| 3 ListSet   |    |     | OCDL:.              | TOPSDEV:. | TOPSPOS: . |       |        |        |      |
| 4           |    |     |                     |           |            |       |        |        |      |
| 5           |    |     |                     |           |            |       |        |        |      |
| 6 Tst       |    |     |                     |           |            |       |        |        |      |
| 7 Bsy       |    |     | Status              | OffL      | ManB       | URes  | CRes   | SysB   |      |
| 8 RTS       |    |     | TOPSPOS             | 0         | 1          | 5     | 10     | 0      |      |
| 9 OffL      |    |     |                     |           |            |       |        |        |      |
| 10          |    |     | POS 500             | DTC 5     | COMID 125  | CRES  |        |        |      |
| 11          |    |     | Size of Post set: 1 |           |            |       |        |        |      |
| 12 Next     |    |     |                     |           |            |       |        |        |      |
| 13 Frls     |    |     |                     |           |            |       |        |        |      |
| 14          |    |     | OCDL:               |           |            |       |        |        |      |
| 15          |    |     |                     |           |            |       |        |        |      |
| 16          |    |     |                     |           |            |       |        |        |      |
| 17 ListAlms |    |     |                     |           |            |       |        |        |      |
| 18 Info     |    |     |                     |           |            |       |        |        |      |
| TEAM3       |    |     |                     |           |            |       |        |        |      |
| Time 11:01  |    |     |                     |           |            |       |        |        |      |
| >           |    |     |                     |           |            |       |        |        |      |

---

**abtk (topspos)**

---

**Type**

The ABTK command is a menu listed command.

**Target**

The command target for the ABTK command is BRISC or XACORE.

**Description**

The ABTK (abort task) command terminates all active maintenance tasks on the position.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS15**

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

**Qualifications and warnings**

None.

**Syntax**

The ABTK command syntax is as follows:

```
> abtk
```

**Example**

The following table provides examples of the ABTK command.

**Command example**

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>Command:</b>             | > abtk                              |
| <b>Description of task:</b> | Abort the current maintenance task. |
| <b>MAP response:</b>        | <removal of the "Mtce" flag>        |

## **abtk (topsp) (end)**

---

### **Responses**

The following table explains possible responses to the ABTK command.

#### **MAP responses with associated meanings and actions**

|                      |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | {No MAP Output}                                                                                             |
| <b>Meaning:</b>      | The display indicates termination of the maintenance actions on the position by removal of the "mtce" flag. |
| <b>Actions:</b>      | None.                                                                                                       |
| <b>MAP response:</b> | ABTK does NOT utilize any parameters.                                                                       |
| <b>Meaning:</b>      | The user entered parameter(s) and the ABTK command does not use any parameters.                             |
| <b>Actions:</b>      | Re-enter the ABTK command without any parameters.                                                           |

---

**bsy (topspos)**

---

**Type**

The BSY command is a menu listed command.

**Target**

The command target for the BSY command is BRISC or XACORE.

**Description**

The BSY command allows manual busy (MANB) of the posted position(s). The BSY command is valid for positions in the OFFL, URES, CRES, IDL, CPB, SYSB state. Multiple positions are busied by executing the BSY command with the ALL option.

If a position is in the OFFL, URES, CRES, IDL, or SYSB state, it will be moved to the MB state. If a position is in the CPB state, it will be moved to the CPD state and when the call at the position is released move to the ManB state.

When a position is in the MANB state, it cannot accept any OPP messages or calls.

An IP Position may not be changed from OFFL to MANB state if SOC OSB00102 is not ON or the SOC usage limit is exceeded.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS15**

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

**Qualifications and warnings**

None

**Syntax**

The BSY command syntax is as follows:

- > bsy (busy the posted, displayed position)
- > bsy all (busy all positions in the post set)

**bsy (topspos)** (continued)

---

**Example**

The following table provides an example of the BSY command.

**Command example**

|                             |                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > bsy all                                                                                    |
| <b>Description of task:</b> | ManB all positions in the post set. For this example, there are 3 positions in the post set. |
| <b>MAP response:</b>        | BSY Passed<br>BSY Passed<br>BSY<br>Passed                                                    |

**Responses**

The following table explains possible responses to the BSY command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | BSY Passed                                                                                                                                                          |
| <b>Meaning:</b>      | The position(s) changes to the ManB state without any errors.                                                                                                       |
| <b>Actions:</b>      | None. The system issues a message to update the display to ManB.                                                                                                    |
| <b>MAP response:</b> | CPD mtce                                                                                                                                                            |
| <b>Meaning:</b>      | The position is currently handling a call and will attempt busy when the call is freed.                                                                             |
| <b>Actions:</b>      | The position changes to CPD because a call is present on the position. Once the call at the position has ended, the system updates the MAP to indicate a ManB state |
| <b>MAP response:</b> | Request invalid: Position <number> is ManB                                                                                                                          |
| <b>Meaning:</b>      | The position is currently ManB.                                                                                                                                     |
| <b>Actions:</b>      | Enter the HELP command to get more information on the BSY command.                                                                                                  |
| <b>MAP response:</b> | No Position Posted                                                                                                                                                  |
| <b>Meaning:</b>      | There are no positions posted, so nothing is busied.                                                                                                                |
| <b>Actions:</b>      | Post position(s) before issuing the BSY command.                                                                                                                    |
| <b>MAP response:</b> | SOC is idle                                                                                                                                                         |

---

**bsy (topspos) (end)**

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| <b>Meaning:</b>      | The SOC is idle.                                                           |
| <b>Actions:</b>      | Turn the SOC on first, then BSY the position.                              |
| <b>MAP response:</b> | Exceed SOC usage limit                                                     |
| <b>Meaning:</b>      | No more IP positions can be changed from the OFFL state to the ManB state. |
| <b>Actions:</b>      | Increase the SOC limit on the number of IP Positions that may be used.     |

## info (topspos)

---

### Type

The INFO command is a menu listed command.

### Target

The command target for the INFO command is BRISC or XACORE.

### Description

This command displays the following information for the posted position:

- the last known IP address of the position
- the XPM name and number
- the IP address and port number of the DMS peripheral used to provide IP connectivity to the position
- the operator voice trunk and state
- any alarm conditions (SysB or ExDB (DA)) that exist for the posted position
- the SysB Reason

This command is only allowed for the posted position listed on the MAP (one at a time), it cannot not be executed for the entire posted set.

**Note:** This command is invalid if the position is in the NEQ state.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS15

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

### Qualifications and warnings

None.

### Syntax

The INFO command syntax is as follows:

```
> info
```

**info (topspos)** (continued)**Example**

The following table provides examples of the INFO command.

**Command example**

|                             |                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > info                                                                                                                                                |
| <b>Description of task:</b> | Display information on posted position 500                                                                                                            |
| <b>MAP response:</b>        | Last Known Position IP Address: 47.121.3.46<br>XPM: DTC 10<br>XPM IP Address: 47.121.4.55<br>Alarm Conditions: SysB<br>SysB Reason: ApplnConnectivity |

**Responses**

The following table explains possible responses to the INFO command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                 |
|----------------------|---------------------------------------------------------------------------------|
| <b>MAP response:</b> | INFO does NOT utilize any parameters.                                           |
| <b>Meaning:</b>      | The user entered parameter(s) and the INFO command does not use any parameters. |
| <b>Actions:</b>      | Re-enter the INFO command without any parameters.                               |
| <b>MAP response:</b> | INFO executed in an invalid state                                               |
| <b>Meaning:</b>      | The position is in the NEQ state.                                               |
| <b>Actions:</b>      | Datafill the position in table TOPSPOS before executing the INFO command.       |
| <b>MAP response:</b> | No Position Posted                                                              |
| <b>Meaning:</b>      | There are no positions posted.                                                  |
| <b>Actions:</b>      | Post the desired positions and attempt the INFO command again.                  |
| <b>MAP response:</b> | INFO Passed                                                                     |



## **info (topspos) (end)**

---

### **MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                 |                                                                                                                                                                                                                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b> | The INFO command is successful.                                                                                                                                                                                                                                                                                 |
| <b>Actions:</b> | None. The following information is displayed for the posted position:<br><br>Last Known Position IP Address: [0-255].[0-255].[0-255].[0-255]<br>XPM IP Address: [0-255].[0-255].[0-255].[0-255]<br>Alarm Conditions: [None, SysB, ExDB: [DA]]<br>SysB Reason: [None, PeripheralConnectivity, ApplnConnectivity] |

---

**listalms (topspos)**

---

**Type**

The LISTALMS command is a menu listed command.

**Target**

The command target for the LISTALMS command is BRISC or XACORE.

**Description**

The LISTALMS command provides a list of all alarm conditions for all TOPS IP positions and TOPS IP position audit processes.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS15**

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

**Qualifications and warnings**

None.

**Syntax**

The LISTALMS command syntax is as follows:

```
> listalms
```

**Example**

The following table provides examples of the LISTALMS command.

**Command example**

|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| <b>Command:</b>             | > listalms                                                           |
| <b>Description of task:</b> | List all alarm conditions for TOPS IP positions.                     |
| <b>MAP response:</b>        | POS 310 SYSB<br>POS 355 EXDB: DA<br>POS 360 EXDB: DA<br>POS 401 SYSB |

**listalms (topsp) (end)**

---

**Responses**

The following table explains possible responses to the LISTALMS command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | LISTALMS does NOT utilize any parameters.                                                          |
| <b>Meaning:</b>      | The user entered parameter(s) and the LISTALMS command does not use any parameters.                |
| <b>Actions:</b>      | Re-enter the LISTALMS command without any parameters.                                              |
| <b>MAP response:</b> | No TOPS IP Alarms Found                                                                            |
| <b>Meaning:</b>      | No alarm conditions exist for any TOPS IP position.                                                |
| <b>Actions:</b>      | None                                                                                               |
| <b>MAP response:</b> | Positions and Alarm Conditions Listed                                                              |
| <b>Meaning:</b>      | Positions and their alarm conditions are listed                                                    |
| <b>Actions:</b>      | Troubleshoot the listed alarm conditions. These alarm conditions are the TPSysB and TPExDB alarms. |

## listset (topspos)

### Type

The LISTSET command is a menu listed command.

### Target

The command target for the listset command is BRISC or XACORE.

### Description

The listset command provides a list of all positions in the post set.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS15

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

### Qualifications and warnings

None.

### Syntax

The LISTSET command syntax is as follows:

```
> listset
```

### Example

The following table provides examples of the LISTSET command.

#### Command example

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > listset                                                                                 |
| <b>Description of task:</b> | List all positions in the post set.                                                       |
| <b>MAP response:</b>        | POS 305 DTC 5 COMID 66 MANB<br>POS 307 DTC 5 COMID 66 SYSB<br>POS 355 DTC 5 COMID 66 URES |

## **listset (topsp) (end)**

---

### **Responses**

The following table explains possible responses to the LISTSET command.

#### **MAP responses with associated meanings and actions**

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| <b>MAP response:</b> | (Positions in the post set are listed.)                                            |
| <b>Meaning:</b>      | The post set is listed with position number, XPM, COMID, and state.                |
| <b>Actions:</b>      | None.                                                                              |
| <b>MAP response:</b> | No Position Posted                                                                 |
| <b>Meaning:</b>      | The post set is empty.                                                             |
| <b>Actions:</b>      | Post the desired positions and attempt the LISTSET command again.                  |
| <b>MAP response:</b> | LISTSET does NOT utilize any parameters.                                           |
| <b>Meaning:</b>      | The user entered parameter(s) and the LISTSET command does not use any parameters. |
| <b>Actions:</b>      | Re-enter the LISTSET command without any parameters.                               |

---

**next (topspos)**

---

**Type**

The NEXT command is a menu listed command.

**Target**

The command target for the NEXT command is BRISC or XACORE.

**Description**

The NEXT command steps to the next position in the post set.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS15**

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

**Qualifications and warnings**

None.

**Syntax**

The NEXT command syntax is as follows:

> next

**Example**

The following table provides examples of the NEXT command.

**Command example**

|                             |                                        |
|-----------------------------|----------------------------------------|
| <b>Command:</b>             | > next                                 |
| <b>Description of task:</b> | Post the next position in the post set |
| <b>MAP response:</b>        | BPOS 305 DTC 5 COMID 66 MANB           |

**next (topspos) (end)**

---

**Responses**

The following table explains possible responses to the NEXT command.

**MAP responses with associated meanings and actions**

|                      |                                                                                          |
|----------------------|------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | POS <Position Number> <PMTType> <PM No> COMID <COMID> <STATE>                            |
| <b>Meaning:</b>      | The next position in the post set replaces the display of the currently posted position. |
| <b>Actions:</b>      | Continue maintenance on the newly posted position.                                       |
| <b>MAP response:</b> | End of post set                                                                          |
| <b>Meaning:</b>      | Either the post set was empty or no more position(s) are in the post set                 |
| <b>Actions:</b>      | None                                                                                     |
| <b>MAP response:</b> | Next does NOT utilize any parameters                                                     |
| <b>Meaning:</b>      | The wrong parameter(s) was entered.                                                      |
| <b>Actions:</b>      | Re-enter the NEXT command with no parameters.                                            |

---

**offl (topspos)**

---

**Type**

The OFFL command is a menu listed command.

**Target**

The command target for the OFFL command is BRISC or XACORE.

**Description**

The OFFL command changes an IP position(s) from the ManB state to the OFFL state. Positions can only be deleted from table TOPSPOS while in the OFFL state.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS15**

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

**Qualifications and warnings**

None.

**Syntax**

The OFFL command syntax is as follows:

> offl (offl the posted, displayed position)

> offl all (offl the post set)

**Example**

The following table provides examples of the OFFL command.

**Command example**

|                             |                       |
|-----------------------------|-----------------------|
| <b>Command:</b>             | > post p 500;offl     |
| <b>Description of task:</b> | Off-line Position 500 |
| <b>MAP response:</b>        | OFFL<br>Passed        |



**offl (topsp) (end)**

---

**Responses**

The following table explains possible responses to the OFFL command.

**MAP responses with associated meanings and actions**

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| <b>MAP response:</b> | OFFL Passed                                                                   |
| <b>Meaning:</b>      | The OFFL command was successful without any errors.                           |
| <b>Actions:</b>      | None.                                                                         |
| <b>MAP response:</b> | Request Invalid: Position must be ManB                                        |
| <b>Meaning:</b>      | The OFFL command could not be executed because the position was not ManB.     |
| <b>Actions:</b>      | Issue the BSY command to busy the position before executing the OFFL command. |
| <b>MAP response:</b> | No Position Posted                                                            |
| <b>Meaning:</b>      | The OFFL command could not be executed without a position posted.             |
| <b>Actions:</b>      | Issue a POST command and then attempt the OFFL command again.                 |
| <b>MAP response:</b> | Either incorrect optional parameter(s) or too many parameters                 |
| <b>Meaning:</b>      | The wrong parameter(s) was issued.                                            |
| <b>Actions:</b>      | Enter the HELP command for information on the OFFL command.                   |

---

**quit (topspos)**

---

**Type**

The QUIT command is a menu listed command.

**Target**

The command target for the QUIT command is BRISC or XACORE.

**Description**

The QUIT command exits from the TOPSPOS level and returns to the previous level.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS15**

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

**Qualifications and warnings**

None

**Syntax**

The QUIT command syntax is as follows:

```
> QUIT
> QUIT <nlevels>
> QUIT <incrname>
> QUIT ALL
```

The above commands are as follows:

- QUIT: Quits the current MAP level.
- QUIT <nlevels>: Quits the indicated number of MAP levels.
- QUIT <incrname>: Quits the TOPSPOS level, and preceding levels back to and including <incrname>, leaving the user in the MAP level entered prior to <incrname>. Possible values of <incrname> are TOPSIP, APPL, MTC, and MAPCI.
- QUIT ALL: Quits all MAP levels and returns to the CI level.

**quit (topspos) (end)**

---

**Example**

The following table provides examples of the QUIT command.

**Command example**

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| <b>Command:</b>             | > QUIT ALL                                         |
| <b>Description of task:</b> | Quit out of all levels and return to the CI level. |
| <b>MAP response:</b>        | CI:                                                |
| <b>Command:</b>             | > QUIT or QUIT TOPSPOS                             |
| <b>Description of task:</b> | Quit out of the TOPSPOS level.                     |
| <b>MAP response:</b>        | Control is changed to the TOPSIP MAP level.        |

**Responses**

The following table explains possible responses to the QUIT command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Change to a different map level                                                                        |
| <b>Meaning:</b>      | The QUIT command was successfully executed.                                                            |
| <b>Actions:</b>      | None. Control is returned to the level specified by the user.                                          |
| <b>MAP response:</b> | QUIT -- Unable to quit requested number of levels                                                      |
| <b>Meaning:</b>      | An invalid level number or increment was entered for the variable parameter.                           |
| <b>Actions:</b>      | Control remains at the TOPSPOS MAP level. Re-enter the command using the appropriate number of levels. |
| <b>MAP response:</b> | QUIT -- Increment not found                                                                            |
| <b>Meaning:</b>      | An invalid level number or increment was entered for the variable parameter.                           |
| <b>Actions:</b>      | Control remains at the TOPSPOS MAP level. Re-enter the command using the appropriate increment.        |

---

**rts (topspos)**

---

**Type**

The RTS command is a menu listed command.

**Target**

The command target for the RTS command is BRISC or XACORE.

**Description**

The RTS command, when successful, brings an IP position to the Unconnected Restricted Idle (URES) state. The position must be in the ManB state when the RTS is issued.

The RTS command is successful if the data port (socket) associated with the position's COMID is either opened successfully or already open.

If the data port (socket) associated with the position's COMID cannot be opened, the command fails and the position is marked SysB.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS15**

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

**Qualifications and warnings**

None.

**Syntax**

The RTS command syntax is as follows:

```
> rts (rts the posted, displayed position)
> rts all (rts all positions in the post set)
```

**Example**

The following table provides examples of the RTS command.

**Command example (Sheet 1 of 2)**

|                 |           |
|-----------------|-----------|
| <b>Command:</b> | > rts all |
|-----------------|-----------|

**rts (topspas)** (continued)

---

**Command example (Sheet 2 of 2)**

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| <b>Description of task:</b> | RTS all posted data links (for example, 3 positions). |
| <b>MAP response:</b>        | RTS Passed<br>RTS Passed<br>RTS<br>Passed             |

**Responses**

The following table explains possible responses to the RTS command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | RTS Passed                                                                                                       |
| <b>Meaning:</b>      | The RTS command was successful, and the position is marked URES.                                                 |
| <b>Actions:</b>      | None.                                                                                                            |
| <b>MAP response:</b> | Request Invalid: Position <number> must be ManB                                                                  |
| <b>Meaning:</b>      | The position is not in the ManB state. The position must be in the ManB state in order to issue the RTS command. |
| <b>Actions:</b>      | Execute the BSY command to cause the position to change to ManB, and then attempt the RTS command again.         |
| <b>MAP response:</b> | Either incorrect optional parameter(s) or too many parameters.                                                   |
| <b>Meaning:</b>      | The wrong parameter(s) were entered.                                                                             |
| <b>Actions:</b>      | Enter the HELP command for information on the RTS command.                                                       |
| <b>MAP response:</b> | No Position Posted                                                                                               |
| <b>Meaning:</b>      | There is no positions posted, so no action is taken.                                                             |
| <b>Actions:</b>      | Post position(s) before issuing the RTS command.                                                                 |
| <b>Actions:</b>      | Wait until maintenance is complete.                                                                              |
| <b>MAP response:</b> | RTS Failed: <RTS_fail_message>                                                                                   |

---

**rts (topspos) (end)**

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                 |                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b> | <p>The RTS command was not successful. Possible values for rts_fail_message are:</p> <ul style="list-style-type: none"><li>• Socket open failed -- This means the socket for this position could not be opened.</li><li>• XPM not in-service --This means the XPM used for the posted position's data connectivity is not in-service.</li></ul> |
| <b>Actions:</b> | <p>Refer to the TOPS IP User's Guide for possible causes.</p>                                                                                                                                                                                                                                                                                   |

## tst (topspos)

---

### Type

The TST command is a menu listed command.

### Target

The command target for the TST command is BRISC or XACORE.

### Description

The system sends a message to the posted position and waits for a reply. When a reply is received, the message round-trip time (in milliseconds) and IP data link of the position are displayed. The TST command is executed while in the CRES state. The message round trip time represents the message response time.

The TST command times out after 5 seconds if no response is received. If the test fails, a message is displayed..

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS15

Feature 59006653 in functionality OPP Over IP, OSB00101, introduced this command.

### Qualifications and warnings

None

### Syntax

The TST command syntax is as follows:

```
> tst
```

### Example

The following table provides an example of the TST command.

#### Command example

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| <b>Command:</b>             | > tst                                                          |
| <b>Description of task:</b> | Test the posted position                                       |
| <b>MAP response:</b>        | TST Passed: Round trip time: 20 msec<br>IP position data link: |

**tst (topspos)** (continued)**Responses**

The following table explains possible responses to the TST command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | TST does NOT utilize any parameters                                                                                   |
| <b>Meaning:</b>      | Parameters were entered but the TST command does not use parameters.                                                  |
| <b>Actions:</b>      | Re-enter the TST command without any parameters.                                                                      |
| <b>MAP response:</b> | TST Passed:                                                                                                           |
| <b>Meaning:</b>      | The position test request was successful.                                                                             |
| <b>Actions:</b>      | The system sends a TST request to the position, the position replies with a test successful response.                 |
| <b>MAP response:</b> | Request Invalid: Position must be CRES                                                                                |
| <b>Meaning:</b>      | The position must be in the CRES state in order to execute the TST command.                                           |
| <b>Actions:</b>      | Wait for an in-service message to be received from the position before the position can transition to the CRES state. |
| <b>MAP response:</b> | No Position Posted                                                                                                    |
| <b>Meaning:</b>      | There is no position posted.                                                                                          |
| <b>Actions:</b>      | Post position(s) before issuing the TST command.                                                                      |
| <b>MAP response:</b> | TST Failed: Error = <test_fail_message>                                                                               |



## MAP responses with associated meanings and actions (Sheet 2 of 2)

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b> | The test failed because of the reason specified by tst_failed_msg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Actions:</b> | <p>The values for tst_failed_msg are as follows:</p> <ul style="list-style-type: none"><li>• Invalid Request -- This may occur if the position has transitioned to a state other than CRES once the TST command was entered.</li><li>• Message send failure-- The test message could not be sent to the XPM and t.</li><li>• No response timeout-- The DMS timed out waiting on a reply to the TST message from the position.</li><li>• Position_unavailable_for_diags -- This is an example of getting a return code response from the position, and referencing table MTCTEST for text. The text is out of table MTCTEST.</li><li>• No datafill for this error code in table MTCTEST: RC = 152 -- This failure is an example of getting a return code in the response from the position, and referencing table MTCTEST for text, but the return code is not datafilled.</li></ul> <p>Check for problems with the IP XPM, Network, or IP Position.</p> |

---

## 28 TOPSIP level commands

---

This chapter provides an overview of the TOPSIP level. This chapter also provides detailed information on new or changed commands in the TOPSIP level.

The following table alphabetically lists the commands available at the TOPSIP level.

**Table 28-1**

| Command |
|---------|
| ocdl    |
| quit    |
| topsdev |

### Description

This level of the MAP provides a maintenance user interface to monitor and change the state of operator centralization internet protocol (OC-IP) data links.

### How to access the TOPSIP level

Access the TOPSIP level from the CI environment:

```
> mapci;mtc;appl;topsip
```

### How to return to the CI

Return to the CI environment:

```
> quit all
```

### MAP display

The following figure shows an example of the MAP display at the TOPSIP level.

Figure 28-1 Example of a MAP display at the OCDL level

| CM           | MS | IOD | Net    | PM | CCS       | Lns   | Trks   | Ext | APPL   |
|--------------|----|-----|--------|----|-----------|-------|--------|-----|--------|
| .            | .  |     |        |    |           |       |        |     |        |
| TOPSIP       |    |     | OAMAP  |    | SDM       | SWMTC | SDMBIL |     | TOPSIP |
| 0 Quit       |    |     |        |    |           |       |        |     |        |
| 2            |    |     |        |    |           |       |        |     |        |
| 3 TOPSDEV    |    |     | OCDL : | .  | TOPSDEV : |       |        |     |        |
| 4            |    |     |        |    |           |       |        |     |        |
| 5 OCDL       |    |     |        |    |           |       |        |     |        |
| 6            |    |     | TOPSIP |    |           |       |        |     |        |
| 7            |    |     |        |    |           |       |        |     |        |
| 8            |    |     |        |    |           |       |        |     |        |
| 9            |    |     |        |    |           |       |        |     |        |
| 10           |    |     |        |    |           |       |        |     |        |
| 11           |    |     |        |    |           |       |        |     |        |
| 12           |    |     |        |    |           |       |        |     |        |
| 13           |    |     |        |    |           |       |        |     |        |
| 14           |    |     |        |    |           |       |        |     |        |
| 15           |    |     |        |    |           |       |        |     |        |
| 16           |    |     |        |    |           |       |        |     |        |
| 17           |    |     |        |    |           |       |        |     |        |
| 18           |    |     |        |    |           |       |        |     |        |
| TEAM3        |    |     |        |    |           |       |        |     |        |
| Time 11:01 > |    |     |        |    |           |       |        |     |        |

---

## 29 TQMIST level commands

---

This chapter provides an overview of the TQMIST level. This chapter also provides detailed information on new or changed commands in the TQMIST level.

The following table alphabetically lists the commands available at the TQMIST level.

**Table 29-1**

| Command  |
|----------|
| alloc    |
| clr      |
| dump     |
| event    |
| help     |
| info     |
| mischild |
| quit     |
| rst      |
| sel      |
| show     |
| trace    |
| unsel    |

## Description

This level of the MAP provides queue management system (QMS) management information system (MIS) event messages based on the selected criteria.

## How to access the TQMIST level

Access the TQMIST level from the CI environment:

```
> tqmist
```

## How to return to the CI

Return to the CI environment:

```
> quit
```

---

**mischild (tqmist)**

---

**Type**

The MISCHILD command is a nonmenu command.

**Target**

The command target for the MISCHILD command is BRISC or XACORE.

**Description**

The MISCHILD command recreates the QMS MIS IP child process if it dies and cannot restart itself.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007458 in functionality MIS Over IP, OSB00001, introduced this command.

**Qualifications and warnings**

None

**Syntax**

The MISCHILD command syntax is as follows:

```
> mischild
```

**Example**

The following table provides an example of the MISCHILD command.

**Command example**

|                             |                                           |
|-----------------------------|-------------------------------------------|
| <b>Command:</b>             | > MISCHILD                                |
| <b>Description of task:</b> | Recreate a dead QMS MIS IP Child process. |
| <b>MAP response:</b>        | > TQMIST:                                 |

## **mischild (tqmist) (end)**

---

### **Responses**

The following table explains possible responses to the MISCHILD command.

#### **MAP responses with associated meanings and actions**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>MAP response:</b> | TQMIST:                                   |
| <b>Meaning:</b>      | Recreate a dead QMS MIS IP Child process. |
| <b>Actions:</b>      | Verify that the EXT108 log is generated.  |

---

## 30 TTP level commands

---

This chapter provides an overview of the TTP level. This chapter also provides detailed information on new or changed commands in the TTP level.

The following table alphabetically lists the commands available at the TTP level.

**Table 30-1**

| Command |
|---------|
| bsy     |
| rts     |
| seize   |
| tst     |

### Description

*The TTP level monitors and maintains trunk status and gains access to the trunk maintenance sublevels.*

### How to access the TTP level

Access the TTP level from the CI environment:

```
> mapci;mtc;trks;ttp
```

### How to return to the CI

Return to the CI environment:

```
> quit
```

### MAP display

The following figure shows an example of the MAP display of the TTP level.



Figure 30-1 Map display of the TTP level

|     | CM       | MS          | IOD      | Net  | PM   | CCS | Lns | Trks | Ext    | APPL   |
|-----|----------|-------------|----------|------|------|-----|-----|------|--------|--------|
|     | .        | .           | .        | .    | .    | .   | .   | .    | .      | .      |
| TTP |          |             |          |      |      |     |     |      |        |        |
| 0   | QUIT     | POST        | DELQ     | BSYQ | DIG  |     |     |      |        |        |
| 2   | Post_    | TTP         | 6-0009   |      |      |     |     |      |        |        |
| 3   | SEIZE    | CKT TYPE    | PM NO.   | COM  | LANG | STA | S   | R    | DOT TE | RESULT |
| 4   |          |             |          |      |      |     |     |      |        |        |
| 5   | BSY      |             |          |      |      |     |     |      |        |        |
| 6   | RTS      |             |          |      |      |     |     |      |        |        |
| 7   | TST      |             |          |      |      |     |     |      |        |        |
| 8   |          |             |          |      |      |     |     |      |        |        |
| 9   | CktInfo  |             |          |      |      |     |     |      |        |        |
| 10  | CktLoc   |             |          |      |      |     |     |      |        |        |
| 11  | Hold     | MTC:        |          |      |      |     |     |      |        |        |
| 12  | NEXT     | TRKS:       |          |      |      |     |     |      |        |        |
| 13  | RLS      | TTP ID IS:  | 6-0009   |      |      |     |     |      |        |        |
| 14  | Ckt_     | NO CKT, SET | IS EMPTY |      |      |     |     |      |        |        |
| 15  | Trnslvf_ | TTP:        |          |      |      |     |     |      |        |        |
| 16  | StkSdr_  |             |          |      |      |     |     |      |        |        |
| 17  | Pads     |             |          |      |      |     |     |      |        |        |
| 18  | Level_   |             |          |      |      |     |     |      |        |        |

---

**bsy**

---

**Type**

The bsy command is a menu listed command.

**Target**

The command target for the bsy command is ALL.

**Description**

Use the bsy command to set a circuit to the specified out-of-service state.

The bsy command allows operating company personnel to manually busy a trunk member.

PRI trunks that have the IP (Internet Protocol) option provisioned in table TRKGRP cannot use the bsy command because manual maintenance cannot be performed on IP PRI (Primary Rate Interface) trunk members.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA012**

Feature 59010280 introduced IP PRI options.

**Limitations and restrictions**

The following limitations and restrictions apply to the bsy command:

- Busying a circuit makes it unavailable for call processing. Circuits can be busied either manually when maintenance personnel put the circuit into the ManB state or automatically when the system performs the same action.
- Manual busying has priority to override any out-of-service state (cbsy, neq, offl, pbsy, and sysb).
- If call processing or maintenance action is in progress on the circuit, the circuit is placed in a Busy Queue (BUSYQ). This circuit queue, called a BUSYQ CCT, can contain up to 20 circuits at a time. When a circuit becomes available, it is busied and removed from the queue.
- The specified group of circuits or the entire posted set can be busied by placing the circuits in BUSYQALL. As circuits become available, they are busied and deleted from the BUSYQALL.
- If any circuits in the BUSYQALL do not become available within 4 minutes of being queued, the system no longer attempts to busy them.

**bsy** (continued)

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- When busying transmission links in an office are equipped with Common Channel Signaling (CCIS6), CCITT6, and CCS7, an outage of the entire associated trunk group can occur.
- The bsy command is the only command that has an effect on trunks involved in a wideband IT integrated services digital network user part (ISUP). If a trunk is call processing busy (CPB) and the bsy command is done on a trunk in the control position, the trunk state is changed to call processing deloaded (CPD). Call processing deloaded is an indication to call processing software that a trunk is not to be set idle (IDL) when the call is released. The trunk state is changed from CPD to ManB and the trunk is no longer available for call processing.
- If the entire wideband IT ISUP trunk group is posted in the control position and the bsy all command is issued, then all CPB trunks change to CPD and return to ManB upon call disconnect.

**Syntax**

There is no change to the bsy command syntax.

```
bsy [<STATE> {INB,
 MB,
 SB,
 ALL,
 A}]
 [<ALL> {ALL,
 A}]
```

The following table describes the parameters and variables of the bsy command.

**Command parameter and variable descriptions (Sheet 1 of 2) (Sheet 1 of 2)**

| Parameters and variables | Value                | Description                                                     |
|--------------------------|----------------------|-----------------------------------------------------------------|
| STATE                    | INB, MB, SB, and ALL | The condition the trunk is in at any given time.                |
| INB                      | N/A                  | This parameter changes the circuit state to installation busy.  |
| MB                       | N/A                  | This parameter changes the circuit state to manual busy (ManB). |
| SB                       | N/A                  | This parameter changes the circuit state to system busy (SysB). |

**bsy** (continued)**Command parameter and variable descriptions (Sheet 2 of 2) (Sheet 2 of 2)**

| Parameters and variables | Value     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ALL                      | ALL and A | This parameter has the same meaning as the A parameter. This parameter specifies that all posted circuits be placed in the BUSYQALL queue to be busied. For circuits that were previously posted by group (the command post g), all circuits in the group are busied. When used after the INB, MB, or SB command, this parameter specifies the posted trunk be placed in the busy queue (BUSYQ) and put in the specified state when call processing or maintenance action is completed on the trunks.                          |
| A                        | N/A       | This parameter has the same meaning as the ALL parameter. This parameter specifies that all posted circuits are placed in the busy queue all (BUSYQALL) queue to be busied. For circuits that were previously posted by group (the command post g), all circuits in the group are busied. When used after the INB, MB, or SB command, this parameter specifies that the posted trunk be placed in the busy queue (BUSYQ) and put in the specified state when call processing or maintenance action is completed on the trunks. |

**Example**

The following table provides an example of the bsy command.

**Command example**

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;bsy inb all</b>                                                           |
| <b>Description of task:</b> | Place all posted trunks in the busy queue and make them installation busy.       |
| <b>MAP response:</b>        | OK, POST SET IS SET IN BSYQ.                                                     |
| <b>Explanation:</b>         | The posted trunks have been placed in the busy queue and made installation busy. |

**bsy** (end)

---

**Responses**

The following table explains possible responses to the bsy command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Commnd:</b>       | <b>&gt;bsy</b>                                                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | A PVC is on this trunk. Use FRLS if necessary.                                                                                                                                                                                                                                 |
| <b>Meaning:</b>      | An X75 trunk has been accessed, the trunk has a PVC, and the bsy command has been used. You can choose to use the forced release (frls) command. Entering the frls command forces the trunk in the control position to the ManB state. This message appears on SuperNode only. |
| <b>Actions:</b>      | The user can choose to use the FRLS command if maintenance action is necessary and the bsy command will not execute.                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;bsy</b>                                                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | FAILED, NO CIRCUIT                                                                                                                                                                                                                                                             |
| <b>Meaning:</b>      | The command failed because no circuit was posted.                                                                                                                                                                                                                              |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;bsy</b>                                                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | Failed to seize CKT                                                                                                                                                                                                                                                            |
| <b>Meaning:</b>      | The command failed to seize a circuit.                                                                                                                                                                                                                                         |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;bsy</b>                                                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | OK, POST SET IS SET IN BSYQ.                                                                                                                                                                                                                                                   |
| <b>Meaning:</b>      | The posted trunks have been put in the BUSYQ.                                                                                                                                                                                                                                  |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;bsy</b>                                                                                                                                                                                                                                                                 |
| <b>MAP response:</b> | STATE CHANGED.                                                                                                                                                                                                                                                                 |
| <b>Meaning:</b>      | The posted trunks have been placed in the requested state.                                                                                                                                                                                                                     |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                           |

---

**hold**

---

**Type**

The hold command is a menu listed command.

**Target**

The command target for the hold command is ALL.

**Description**

The hold command places the circuit in the control position in the first available hold position.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**MMP15**

Feature 59022106 introduced call direction indication on two-way trunks.

**Limitations and restrictions**

The following limits and restrictions apply to the hold command:

- The hold command works regardless of the trunk state, and has no effect on a wideband IT ISUP call.
- Maintenance being done on a circuit in the control position can be temporarily suspended by manually placing the circuit into a hold position. While in the hold position, a circuit retains whatever state it had when in the control position, and cannot be affected by maintenance action. A total of 3 hold positions are available.
- When returning a circuit from a hold position to the control position, the circuit currently in the control position (if any) must be:
  - transferred to a hold position
  - returned to the posted set
  - released from maintenance action
- When quitting the trunk test position (TTP) level of the MAP, circuits in the hold position retain their status and connections for up to two hours, and the circuit in the control position is idled immediately. If during that time no further maintenance occurs at the TTP level, the circuits are released.
- In the display for held circuits, the circuits are identified immediately below the information on the circuit occupying the control position.

**hold** (continued)

---

**Syntax**

The hold command syntax is as follows:

hold

There is no change to the hold command syntax.

**Example**

The following table provides an example of the hold command.

**Command example**

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt; post g 2wisupab; hold</b>                                                |
| <b>Description of task:</b> | Hold the posted trunk.                                                           |
| <b>MAP response:</b>        | 2W S7 S7 PDTC 7 8 2 2WISUPAB 2 IDL R<br><br>HOLD 1 2WISUPAB 0 CPB 0 102 783 5480 |
| <b>Explanation:</b>         | The posted trunk, which has CLLI code 2wisupab, is held.                         |

**Responses**

The following table explains possible responses to the hold command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt; hold</b>                                                                                       |
| <b>MAP response:</b> | FAILED, HOLD POSITIONS BUSY                                                                            |
| <b>Meaning:</b>      | All hold positions are occupied by a circuit. No hold position is available for holding more circuits. |
| <b>Actions:</b>      | Remove circuits from one or more of the three held positions before reissuing the command.             |
| <b>Command:</b>      | <b>&gt; hold</b>                                                                                       |
| <b>MAP response:</b> | FAILED, NO CIRCUIT                                                                                     |
| <b>Meaning:</b>      | The command failed because no circuit was posted.                                                      |
| <b>Actions:</b>      | None                                                                                                   |
| <b>Command:</b>      | <b>&gt; hold</b>                                                                                       |
| <b>MAP response:</b> | OK, CKT ON HOLD                                                                                        |

---

**hold** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The circuit in the control position is held in the available hold position. There was only one circuit in the posted set, and the posted set is now empty.                                                                                                                                                          |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt; hold</b>                                                                                                                                                                                                                                                                                                    |
| <b>MAP response:</b> | OK, CKT ON HOLD<br>NO CKT, SET IS EMPTY                                                                                                                                                                                                                                                                             |
| <b>Meaning:</b>      | The currently posted circuit in the control position is held in the available hold position. There was only one circuit in the posted set, and the posted set is now empty.                                                                                                                                         |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                |
| <b>Command:</b>      | <b>&gt; hold</b>                                                                                                                                                                                                                                                                                                    |
| <b>MAP response:</b> | OK, CKT ON HOLD<br>SHORT CLLI IS: XXXXXXXX                                                                                                                                                                                                                                                                          |
| <b>Meaning:</b>      | The currently posted circuit in the control position is held in the available hold position. The next circuit in the post set is placed in the control position. If the hold command is for D-channel with a backup D-channel, both the primary D-channel and the secondary D-channel are shown on the MAP display. |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                                                                                                |



## post

---

### Type

The post command is a menu listed command.

### Target

The command target for the post command is ALL.

### Description

The post command is used to post one or more circuits for maintenance.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### MMP15

Feature 59022106 introduced call direction indication on two-way trunks.

Feature AF6857 introduced UMP/RMP options via their peripheral modules UNIREM/TRLE.

### Limitations and restrictions

The following limits and restrictions apply to the post command:

- The post command posts only trunks that belong to the user.
- If the CLLI to be entered is short and a numerical value, enter the CLLI with single quotation marks (') around it.
- To get the total number of trunks in the wideband call, you must add the master trunk in the control position to the number of trunk circuits in the post set. Obtain the number of trunk circuits in the post set by looking at the post indicator in the trunk test position (TTP) display.
- The post command works regardless of the trunk state and has no effect on a wideband IT Integrated Services user part (ISUP) call.

### Syntax

The post command syntax is as follows:

```
post g {<clli>, <clnr>} <ckt> to <ckt>
```

**post** (continued)

The following table describes the parameters and variables of the post command.

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value      | Description                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| g                        |            | This parameter posts a group of circuits by its CLLI.<br>If no circuit number is entered after the g command, entering the command <code>post g &lt;clli&gt;</code> posts up to the first 512 circuits in the group.<br>After g, enter either <code>clli</code> or <code>clnr</code> .                                                                                                                                            |
| clli                     |            | This variable represents the full or short CLLI code assigned to a group of circuits or trunk group.                                                                                                                                                                                                                                                                                                                              |
| clnr                     | 0 to 9999  | This variable represents the circuit number of the trunk group.<br>If two circuit numbers are entered, all circuits from the first number to the second number are posted.<br>If only one circuit number is posted, all numbers from that number to the end of the list are posted.<br>If a circuit number is not entered, entering the command <code>post g &lt;clli&gt;</code> posts up to the first 512 circuits in the group. |
| ckt                      | 0 to 9999  | This variable represents the circuit number of the trunk group.<br>If two circuit numbers are entered, all circuits from the first number to the second number are posted.<br>If only one number is entered, all circuits from that number to the end of the list are posted.                                                                                                                                                     |
| L                        |            | This variable posts UMP/RMP via their peripheral modules UNIREM/TRLE.                                                                                                                                                                                                                                                                                                                                                             |
| PMNAME                   | TRLE, UREM | This variable represents the name of the peripheral module.                                                                                                                                                                                                                                                                                                                                                                       |
| SITE                     | string     | This variable represents the site of the peripheral module.                                                                                                                                                                                                                                                                                                                                                                       |
| FRAME                    | 0 to 511   | This variable represents the position of the peripheral module.                                                                                                                                                                                                                                                                                                                                                                   |

**post** (end)**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value  | Description                                                        |
|--------------------------|--------|--------------------------------------------------------------------|
| UNIT                     | 0 to 2 | This variable represents the unit number of the peripheral module. |
| MP_NUMBER                | 0 to 1 | This variable represents the mp number of the peripheral module.   |

There is no change to the post command syntax.

**Examples**

The following tables provide examples of the post command.

**Command example**

|                             |                                                              |
|-----------------------------|--------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt; post g 2wisupab</b>                                  |
| <b>Description of task:</b> | Post the trunk that has CLLI code 2wisupab.                  |
| <b>MAP response:</b>        | 2W S7 S7 PDTC 7 8 2 2WISUPAB 0 CPB 0 102 783 5476<br>P_IDL R |
| <b>Explanation:</b>         | The trunk that has CLLI code 2wisupab has been posted.       |

**Command example**

|                             |                                                         |
|-----------------------------|---------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;POST L UREM URM 0 0 0</b>                        |
| <b>Description of task:</b> | Post UMP 0, which resides on UREM URM 0 0.              |
| <b>MAP response:</b>        | POSTED CKT IDLED<br>SHORT CLLI IS: UMP<br>OK,CKT POSTED |
| <b>Explanation:</b>         | UMP 0, which resides on UREM URM 0 0 has been posted.   |

**Responses**

There is no change to the post command responses.

---

**rts**

---

**Type**

The rts command is a menu unlisted command.

**Target**

The command target for the rts command is ALL.

**Description**

Use the rts command to manually return a PRI interface b or d channel to service.

The rts command is not available for PRI trunks that have the IP option provisioned in table TRKGRP. No manual maintenance is allowed on IP PRI trunk members. The b and d channel states track the gateway node state to which they terminate.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA012**

Feature 59010280 introduced IP PRI options.

**Limitations and restrictions**

The rts command has no limitations or restrictions.

**Syntax**

The rts command syntax is as follows:

```

rts [<OPT> {ALL,
 RLS,
 RTS,
 A,
 R,
 C <TYPE> {M,
 CP,
 BOTH},
 IDL,
 RES,
 INI}}]
```

**rts** (continued)

---

The following table describes the parameters and variables of the rts command.

**Command parameter and variable descriptions**

| Parameters and variables | Value                                     | Description                                                                                                                 |
|--------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| OPT                      | ALL, RLS, RTS, A, R, C, IDL, RES, and INI | OPT indicates how the circuit is returned to service.                                                                       |
| ALL                      | N/A                                       | This parameter selects the entire trouble buffer to be cleared.                                                             |
| RLS                      | N/A                                       | This parameter releases the connection and idles the circuit.                                                               |
| RTS                      | N/A                                       | This parameter returns the circuit in the control position to service.                                                      |
| A                        | N/A                                       | This parameter releases all manual busy (ManB) circuits in the posted set.                                                  |
| R                        | N/A                                       | This parameter releases the connection and idles the circuit.                                                               |
| C                        | N/A                                       | This parameter clears the trouble buffer entry.                                                                             |
| TYPE                     | M, CP, and BOTH                           | This parameter is the type of circuit returned to service.                                                                  |
| M                        | N/A                                       | This parameter selects the maintenance buffer entry to be cleared.                                                          |
| CP                       | N/A                                       | This parameter selects the call processing buffer entry to be cleared.                                                      |
| BOTH                     | N/A                                       | This parameter selects both the call processing and maintenance buffer entry to be cleared.                                 |
| IDL                      | N/A                                       | This parameter specifies the idle circuit state. If no parameters are entered on a two-way trunk, the default state is IDL. |
| RES                      | N/A                                       | This parameter specifies the restricted idle circuit state.                                                                 |
| INI                      | N/A                                       | This parameter specifies the initialized circuit state.                                                                     |

**rts** (continued)

The following table provides an example of the rts command.

**Command examples**

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Command:</b>             | <b>rts</b>                        |
| <b>Description of task:</b> | Release the connection.           |
| <b>MAP response:</b>        | RTS OK                            |
| <b>Explanation:</b>         | The connection has been released. |

**Responses**

The following table explains possible responses to the rts command.

**MAP responses with associated meanings and actions (Sheet 1 of 2) (Sheet 1 of 2)**

|                      |                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;rts</b>                                                                                                                                               |
| <b>MAP response:</b> | ALREADY DONE                                                                                                                                                 |
| <b>Meaning:</b>      | The circuit is already returned to service and an attempt has been made to return the circuit to service again.                                              |
| <b>Actions:</b>      | None                                                                                                                                                         |
| <b>Command:</b>      | <b>&gt;rts</b>                                                                                                                                               |
| <b>MAP response:</b> | FAILED: D CHANNEL IS DOWN                                                                                                                                    |
| <b>Meaning:</b>      | The rts command failed after being applied to a B-channel because its associated D-channel or DS-1 link is out of service. The B-channel has been made idle. |
| <b>Actions:</b>      | None                                                                                                                                                         |
| <b>Command:</b>      | <b>&gt;rts</b>                                                                                                                                               |
| <b>MAP response:</b> | FAILED, NO CIRCUIT                                                                                                                                           |
| <b>Meaning:</b>      | There are no circuits to be returned to service.                                                                                                             |
| <b>Actions:</b>      | None                                                                                                                                                         |
| <b>Command:</b>      | <b>&gt;rts</b>                                                                                                                                               |
| <b>MAP response:</b> | RTS OK                                                                                                                                                       |
| <b>Meaning:</b>      | The circuit has been returned to service.                                                                                                                    |

**rts (end)**

---

**MAP responses with associated meanings and actions (Sheet 2 of 2) (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Actions:</b>      | None                                                                                                                                                                                                                                           |
| <b>Command:</b>      | >rts                                                                                                                                                                                                                                           |
| <b>MAP response:</b> | SET IS EMPTY                                                                                                                                                                                                                                   |
| <b>Meaning:</b>      | There are no circuits to be returned to service.                                                                                                                                                                                               |
| <b>Actions:</b>      | None                                                                                                                                                                                                                                           |
| <b>Command:</b>      | >rts                                                                                                                                                                                                                                           |
| <b>MAP response:</b> | *WARNING*<br><br>TRUNK WAS TAKEN OUT OF SERVICE BY SYSTEM DUE TO<br>EXCESSIVE CALL ERRORS.<br><br>PLEASE CONTACT SUPPORT GROUP PRIOR TO RETURNING TRUNK<br>TO SERVICE.<br><br>DO YOU WANT TO RTS TRUNK?<br><br>PLEASE CONFIRM ("YES" OR "NO"): |
| <b>Meaning:</b>      | An attempt was made to return to service a trunk taken out of service by the<br>system because of excessive call processing errors.                                                                                                            |
| <b>Actions:</b>      | Enter yes if you want to return the specified trunk to service; otherwise, enter<br>no. Additional maintenance action can be required to clear the fault prior to<br>returning the trunk to service.                                           |

---

**seize**

---

**Type**

The seize command is a menu listed command.

**Target**

The command target for the seize command is ALL.

**Description**

Use the seize command to seize a posted trunk for maintenance action.

This command is not available for primary rate interface (PRI) trunks that have option internet protocol (IP) provisioned in table TRKGRP. No manual maintenance is allowed on IP PRI trunk members. .

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA012**

Feature 59010280 introduced option IP for PRI.

**Limitations and restrictions**

The following limitations and restrictions apply to the seize command:

- The maximum number of circuits in the deload queue (DELQ) is 20, but this number can be reduced by entering a value for the variable DELN. The maximum number is reset by the command seize, or whenever another set of circuits is posted.
- The characters A-SZ on line 9 of the status display indicate an automatic seizure condition. When automatic seizure is in effect, use the next command to select the next circuit from the posted set that can be seized. Those circuits that cannot be seized are bypassed.
- The seize command does not work on call processing busy (CPB) trunks.

**Syntax**

The seize command syntax is as follows:

```
SEIZE [<ALL> {ALL,
 A},
 [<DELN> {0 to 20}]
```



**seize** (continued)

---

The following table describes the parameters and variables of the seize command.

**Command parameter and variable descriptions**

| Parameters and variables | Value     | Description                                                                                                                                |
|--------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| ALL                      | ALL and A | This parameter specifies that seizure is automatic as circuits become available. This parameter has the same meaning as the A parameter.   |
| A                        | N/A       | This parameter specifies that seizure is automatic as circuits become available. This parameter has the same meaning as the ALL parameter. |
| DELN                     | 0 to 20   | This variable specifies the maximum quantity of circuits to be deloaded at one time.                                                       |

**Example**

The following table provides an example of the seize command.

**Command example**

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <b>Command:</b>             | <b>&gt;seize</b>                           |
| <b>Description of task:</b> | Seize the circuit in the control position. |
| <b>MAP response:</b>        | CKT SEIZED                                 |
| <b>Explanation:</b>         | The circuit has been seized.               |

**Responses**

The following table explains possible responses to the seize command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;seize</b>                                                                   |
| <b>MAP response:</b> | ALREADY DONE                                                                       |
| <b>Meaning:</b>      | The circuit has already been seized and you have tried to seize the circuit again. |
| <b>Actions:</b>      | None                                                                               |
| <b>Command:</b>      | <b>&gt;seize</b>                                                                   |
| <b>MAP response:</b> | CKT SEIZED                                                                         |

---

**seize** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                 |                              |
|-----------------|------------------------------|
| <b>Meaning:</b> | The circuit has been seized. |
| <b>Actions:</b> | None                         |

## **soc**

---

### **Type**

The soc command is available at all directory levels.

### **Target**

The command target for the soc command is SuperNode.

### **Description**

Software optionality control (SOC) is a utility used to activate or deactivate feature options that are provisioned in the switch. A SOC relates to functionalities or features in the switch. A password is required to activate and deactivate a SOC option. A SOC option that is not physically related with a feature or functionary is called a tracked SOC option. Tracked SOC options track the existence of some functionalities in the switch, but have no affect on the functionality itself.

### **Release history**

This section identifies if the command is new or changed, and the applicable software release.

#### **CCM12**

Feature 59017218 no longer allows telephone operating company personnel to order SOC AIN00001.

### **Limitations and restrictions**

AIN 0.0 functionality relates to tracked SOC code AIN00001 under the AIN option. AIN 0.0 functionality is not available from the NA011 product release and onward. Telephone operating company personnel can no longer order SOC AIN00001.

### **Syntax**

There is no change to the SOC command syntax.

### **Example**

There is no change to the SOC command example.

### **Responses**

There is no change to the SOC command responses.

**Type**

The tst command is a menu unlisted command.

**Target**

The command target for the tst command is ALL.

**Description**

Use the tst command to test the circuit in the control position.

The tst command allows a trunk member to be manually tested. The tst command is not available for primary rate interface trunks that have the Internet Protocol option provisioned in table TRKGRP. No manual maintenance is allowed on IP PRI trunk members. The state of these channels track the state of the gateway node to which the trunks terminate.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**NA012**

Feature 59010280 introduced option IP for PRI.

**Limitations and restrictions**

The tst command is qualified by the following exceptions, restrictions, and limitations.

## **tst** (continued)

---

- When you use the carrier number to replace the test\_type variable, the system tests all circuits of the specified carrier.
- The signaling test can be enabled or disabled by datafilling table CLLIMTCE.
- The tst command does not affect trunks in CPB.
- The loopback command is required before the X75E test can be performed.
- Before the external continuity test can be performed on an X75 trunk, a far end office must issue the loopback command so that the test information coming from a near end office may be looped back.
- The loopback command is required before the X75I test can be performed.
- The loopback is set on the X25/X75 link interface unit (XLIU) card of an individual trunk.
- Entering a test command without a test code causes a diagnostic to be run on the card. DS1 is the card type for X75 trunks.
- A delay will be inserted between trunk seizure and the outpulsing of digits. This will compensate for the distant end unable to accept digits immediately after seizure.

## **Syntax**

The tst command syntax is as follows:

```
tst [<TEST TYPE> STRING]
 [<EXTRKNM> {0 TO 9999}]
 [<PSID> STRING]
 [<ICOT> STRING]
```

There is no change to the tst command syntax.

**tst** (continued)

The following table describes the parameters and variables of the tst command.

**Command parameter and variable descriptions (Sheet 1 of 5) (Sheet 1 of 5)**

| Parameters and variables | Description                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TEST TYPE                | This variable represents a test line test code or the carrier number for the digital module for a circuit in the control position. The range of carrier numbers is T0–T19.                                                                                                  |
| EXTRKNM                  | This variable specifies a trunk number within a trunk group. This number is required only for the looparound test line (TPLA) and represents the second circuit of the test. The trunk number value is 0–9999.                                                              |
| PSID                     | This variable represents the parameter set identifier (PSID), which is used only with the ISDN option. The PSID corresponds with the test parameters in table ISDNTCP.                                                                                                      |
| ICOT                     | This code represents the test line Integrated Services Digital Network user part (ISUP) continuity test.                                                                                                                                                                    |
| AUTOTEST                 | This represents a system default. When you enter only the test command, the system begins the test sequence for the product engineering code (PEC) for the circuit in the control position. If the first test is passed, the system begins a signaling test on the circuit. |
| DIAG                     | This code represents the test line circuit diagnostic test.                                                                                                                                                                                                                 |
| ISDN                     | This code represents the DMS-300 Integrated Services Digital Network (ISDN) test call line test.                                                                                                                                                                            |
| N100                     | This code represents the test line quiet balanced termination [new] test.                                                                                                                                                                                                   |
| S100                     | This code represents the test line quiet balanced termination [old] test.                                                                                                                                                                                                   |
| S104                     | This code represents the test line transmission loss test.                                                                                                                                                                                                                  |

**tst** (continued)

---

**Command parameter and variable descriptions (Sheet 2 of 5) (Sheet 2 of 5)**

| Parameters and variables | Description                                                                      |
|--------------------------|----------------------------------------------------------------------------------|
| T100                     | This code represents the test line quit termination test.                        |
| T102                     | This code represents the test line milliwatt test.                               |
| T103                     | This code represents the test line supervisory and signaling tests.              |
| T104                     | This code represents the test line transmission noise and loss test.             |
| T105                     | This code represents the test line loss measurement test.                        |
| T108                     | This code represents the test line echo suppression test.                        |
| T165                     | This code represents the test line loss and noise test.                          |
| T5OL                     | This code represents the test line loss and return loss test.                    |
| T56N                     | This code represents the test line loss, noise, and return loss test.            |
| T5AS                     | This code represents the test line loss, noise, return loss and self-check test. |
| T5AT                     | This code represents the test line loss, noise, and return loss test.            |
| T5BS                     | This code represents the test line return loss and return loss self-check test.  |
| T5LB                     | This code represents the test line loss and return loss test.                    |
| T5LH                     | This code represents the test line return loss low and high test.                |
| T5SB                     | This code represents the test line return loss self-check test.                  |
| TA01                     | This code represents the test line loss measurement test.                        |

**tst** (continued)**Command parameter and variable descriptions (Sheet 3 of 5) (Sheet 3 of 5)**

| Parameters and variables | Description                                                                            |
|--------------------------|----------------------------------------------------------------------------------------|
| TA02                     | This code represents the test line loss and frequency test.                            |
| TA03                     | This code represents the test line noise (C-msg) test.                                 |
| TA04                     | This code represents the test line loss, noise test.                                   |
| TA05                     | This code represents the test line loss, frequency-deviation, noise (C-notch) test.    |
| TA06                     | This code represents the test line supervision test.                                   |
| TA07                     | This code represents the test line loss, supervision test.                             |
| TA08                     | This code represents the test line loss, frequency-deviation, supervision test.        |
| TA09                     | This code represents the test line noise, supervision test.                            |
| TA10                     | This code represents the test line loss, noise, supervision test.                      |
| TA11                     | This code represents the test line loss, noise, frequency-deviation, supervision test. |
| TA12                     | This code represents the test line supervision test.                                   |
| TA13                     | This code represents the test line supervision test.                                   |
| TA14                     | This code represents the test line busy flash, loss test.                              |
| TA15                     | This code represents the test line busy flash, loss, frequency-deviation test.         |
| TA16                     | This code represents the test line busy flash, noise test.                             |
| TA17                     | This code represents the test line busy flash, loss, noise test.                       |
| TA18                     | This code represents the test line busy flash, loss, frequency-deviation, noise test.  |



**tst** (continued)**Command parameter and variable descriptions (Sheet 4 of 5) (Sheet 4 of 5)**

| Parameters and variables | Description                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------|
| TA19                     | This code represents the test line supervision test.                                         |
| TA20                     | This code represents the test line supervision, busy flash, loss test.                       |
| TA21                     | This code represents the test line supervision, busy flash, loss, frequency-deviation test.  |
| TA22                     | This code represents the test line supervision, busy flash, noise test.                      |
| TA23                     | This code represents the test line supervision, busy flash, loss, noise test.                |
| TA24                     | This code represents the test line supervision, busy flash, frequency-deviation, noise test. |
| TA25                     | This code represents the test line supervision, busy flash test.                             |
| TART                     | This code represents the test line loss and noise [Turkey] test.                             |
| TCLC                     | This code represents the test line short circuit test.                                       |
| TCON                     | This code represents the test line CCIS6 continuity test.                                    |
| TCOT                     | This code represents the test line CCITT6 continuity test.                                   |
| TE_M                     | This code represents the test line E & M lead test.                                          |
| TERL                     | This code represents the test line echo return loss test.                                    |
| TISS                     | This code represents the test line synchronous test.                                         |
| TL01                     | This code represents the test line DMS-300 looparound test.                                  |
| TL65                     | This code represents the test line loss measurement test.                                    |
| TL6N                     | This code represents the test line loss and noise test.                                      |

**tst** (continued)**Command parameter and variable descriptions (Sheet 5 of 5) (Sheet 5 of 5)**

| Parameters and variables | Description                                                                  |
|--------------------------|------------------------------------------------------------------------------|
| TL6S                     | This code represents the test line loss measurement test.                    |
| TLO5                     | This code represents the test line loss measurement test.                    |
| TLON                     | This code represents the test line loss and noise test.                      |
| TLOS                     | This code represents the test line loss measurements test.                   |
| TLPA                     | This code represents the test line looparound test.                          |
| TOPC                     | This code represents the test line open-circuit test.                        |
| TNSS                     | This code represents the test line non-synchronous test.                     |
| TR2L                     | This code represents the test line repeat 2 [long delay] test.               |
| TR2S                     | This code represents the test line repeat 2 [short delay] test.              |
| TS65                     | This code represents the test line equipment check test.                     |
| TS6N                     | This code represents the test line equipment check test.                     |
| TSBS                     | This code represents the test line loss, noise, return loss self-check test. |
| TSBT                     | This code represents the test line return loss test.                         |
| TSO5                     | This code represents the test line equipment check test.                     |
| TSYN                     | This code represents the test line synchronous test.                         |
| X75E                     | This code represents the test line external continuity for X75 trunks test.  |
| X75I                     | This code represents the test line internal continuity for X75 trunks test.  |

**tst** (continued)

### Example

The following table provides an example of the `tst` command.

### Command example

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| <b>Command:</b>             | > tst                                                                    |
| <b>Description of task:</b> | Perform a test on a circuit that has the short CLLI or CF3P.             |
| <b>MAP response:</b>        | TEST OK<br>EAST_COAST_4 ***+ TRK107 NOV30 13:44:04 4800 PASS<br>CKT CF3P |
| <b>Explanation:</b>         | The circuit passed the test.                                             |

There is no change to the `tst` command example.

## Responses

The following table explains possible responses to the `tst` command.

**MAP responses with associated meanings and actions (Sheet 1 of 4) (Sheet 1 of 4)**

|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | >tst (after the trunk member has been posted at the map level)                                                                                     |
| <b>MAP response:</b> | DS1 diagnostics results                                                                                                                            |
| <b>Meaning:</b>      | The test command was entered without a test code on an X75 trunk, causing a diagnostic to be run on the card. DS1 is the card type for X75 trunks. |
| <b>Actions:</b>      | None                                                                                                                                               |
| <b>Command:</b>      | >tst                                                                                                                                               |
| <b>MAP response:</b> | FAILED, NO CIRCUIT                                                                                                                                 |
| <b>Meaning:</b>      | The command failed because no circuit was posted.                                                                                                  |
| <b>Actions:</b>      | None                                                                                                                                               |
| <b>Command:</b>      | >tst                                                                                                                                               |
| <b>MAP response:</b> | FAILED, POSTED CKT IS NOT X75 TRUNK                                                                                                                |
| <b>Meaning:</b>      | The external or internal continuity test was attempted, but the test could not be run because the posted trunk was not an X75 trunk.               |
| <b>Actions:</b>      | Post an X75 trunk and attempt the test again.                                                                                                      |
| <b>Command:</b>      | >tst                                                                                                                                               |

**tst** (continued)**MAP responses with associated meanings and actions (Sheet 2 of 4) (Sheet 2 of 4)**

|                      |                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | FAILED TO SEIZE CKT                                                                                                                                              |
| <b>Meaning:</b>      | The specified test failed to seize a circuit for testing. A TRK263 Log will be printed, which contains more information for the reason the test failed.          |
| <b>Actions:</b>      | None                                                                                                                                                             |
| <b>Command:</b>      | >tst                                                                                                                                                             |
| <b>MAP response:</b> | NO TID ASSOCIATED WITH TRUNK                                                                                                                                     |
| <b>Meaning:</b>      | The external or internal continuity test was attempted on an X75 trunk, but the test could not be run because the terminal ID of the trunk could not be found.   |
| <b>Actions:</b>      | Attempt the test again.                                                                                                                                          |
| <b>Command:</b>      | >tst                                                                                                                                                             |
| <b>MAP response:</b> | PM IS NOT IN-SERVICE                                                                                                                                             |
| <b>Meaning:</b>      | The external or internal continuity test was attempted, but the test could not be run because the peripheral module (PM) was not in service.                     |
| <b>Actions:</b>      | Go to the PM MAP level and put the PM in service. Attempt the test again.                                                                                        |
| <b>Command:</b>      | >tst                                                                                                                                                             |
| <b>MAP response:</b> | Test failed, bad frames                                                                                                                                          |
| <b>Meaning:</b>      | The external or internal continuity test on an X75 trunk ran, but some frames returned to the XLIU were corrupt.                                                 |
| <b>Actions:</b>      | None                                                                                                                                                             |
| <b>Command:</b>      | >tst                                                                                                                                                             |
| <b>MAP response:</b> | Test failed, frames lost                                                                                                                                         |
| <b>Meaning:</b>      | The external or internal continuity test on an X75 trunk ran, but the number of frames received by the XLIU was less than the number of frames sent by the XLIU. |
| <b>Actions:</b>      | None                                                                                                                                                             |
| <b>Command:</b>      | >tst                                                                                                                                                             |
| <b>MAP response:</b> | Test failed, loopback cannot be set                                                                                                                              |

**tst** (continued)

---

**MAP responses with associated meanings and actions (Sheet 3 of 4) (Sheet 3 of 4)**

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The external or internal continuity test on an X75 trunk was attempted, but the test could not be run because a loopback could not be set in a peripheral module. |
| <b>Actions:</b>      | Attempt the test again.                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;tst</b>                                                                                                                                                    |
| <b>MAP response:</b> | Test failed, request rejected                                                                                                                                     |
| <b>Meaning:</b>      | The external or internal continuity test on an X75 trunk was attempted, but the test could not be run because of a hardware or software problem.                  |
| <b>Actions:</b>      | Make sure the XLIU is in service. If the XLIU is in service, run the test again.                                                                                  |
| <b>Command:</b>      | <b>&gt;tst</b>                                                                                                                                                    |
| <b>MAP response:</b> | Test passed                                                                                                                                                       |
| <b>Meaning:</b>      | The external or internal continuity test passed.                                                                                                                  |
| <b>Actions:</b>      | None                                                                                                                                                              |
| <b>Command:</b>      | <b>&gt;tst</b>                                                                                                                                                    |
| <b>MAP response:</b> | TST command diag invalid with X75. Use X75I or X75E options.                                                                                                      |
| <b>Meaning:</b>      | The test command was attempted on an X75, trunk but the test could not be run because a test code was not entered. Test codes are required for X75 trunks.        |
| <b>Actions:</b>      | Attempt the test again using the X75E or X75I test code.                                                                                                          |
| <b>Command:</b>      | <b>&gt;tst</b>                                                                                                                                                    |
| <b>MAP response:</b> | TST FLD                                                                                                                                                           |
| <b>Meaning:</b>      | The specified test failed.                                                                                                                                        |
| <b>Actions:</b>      | None                                                                                                                                                              |
| <b>Command:</b>      | <b>&gt;tst</b>                                                                                                                                                    |
| <b>MAP response:</b> | TST OK                                                                                                                                                            |
| <b>Meaning:</b>      | The specified test was successful.                                                                                                                                |
| <b>Actions:</b>      | None                                                                                                                                                              |

**MAP responses with associated meanings and actions (Sheet 4 of 4) (Sheet 4 of 4)**

|                      |                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;tst</b>                                                                                       |
| <b>MAP response:</b> | WARNING: Int loopback not removed                                                                    |
| <b>Meaning:</b>      | The internal continuity test passed, but the loopback in the peripheral module could not be removed. |
| <b>Actions:</b>      | Attempt the test again to remove the loopback.                                                       |

There is no change to the tst command responses.



---

## 31 UEN level commands

---

This chapter provides an overview of the UEN level. This chapter also provides detailed information on new or changed commands in the UEN level.

The following table alphabetically lists the commands available at the UEN level.

**Table 31-1**

| Command |
|---------|
| BSY     |
| DISP    |
| LISTSET |
| LOADPM  |
| NEXT    |
| OFFL    |
| POST    |
| QUERYPM |
| RTS     |
| SWLD    |
| TRNSL   |
| TST     |

### Description

Use the UEN level of the MAP to perform maintenance actions (e.g. Tst, Bsy, RTS, OffL, LoadPM, etc.) on the UEN peripherals.



## How to access the UEN level

Access the UEN level from the CI environment:

```
> mapci; mtc;pm;post uen <uen_no>
```

## How to return to the CI

Return to the CI environment:

```
> quit all
```

## MAP display

The following figure shows an example of the MAP display of the UEN level.

**Figure 31-1 Example of a MAP display of the UEN level**

```

CM MS IOD Net PM CCS Lns Trks Ext APPL
JInact RExByp AMA 39PSLK 2 IDT * NDiag 3GC . 1Crit .*
 C M M *C* *C*
UEN
0 Quit PM SysB ManB OffL CBsy ISTb InSv
2 Post_ UEN 0 1 0 0 1 2
3 ListSet
4 UEN HOST 05 0 InSv Links_00S: CSide 0 Pside 0
5 Trnsl_ UNIT0: InSv
6 Tst_ UNIT1: InSv
7 Bsy_
8 RTS_ LSG: 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
9 OffL_ - - - - 0 0 * * - - - - 0 0 * *
10 LoadPM_ PM:
11 Disp_ POST:
12 Next_
13 SwLd_
14 QueryPM
15
16
17
18
```

**loadpm****Type**

The LOADPM command is a menu command.

**Target**

The command target for the LOADPM command is ALL.

**Description**

The LOADPM command is used to load a Universal edge 9000 (UEN) unit or a peripheral module (PM). When the source specified is MATE, the load is obtained from either the active bank of the mate or the standby bank of the mate. The source is determined by the suboptions (ACT or STBY). If the source is specified as SELFACT, the contents of the active bank are copied over to the standby bank of that unit.

**Release history****NA012**

LOADPM is a new command associated with feature 59006196.

**Limitations and restrictions**

The LOADPM command has no limits or restrictions.

**Syntax**

The LOADPM command syntax is as follows:

```
LOADPM <DEVICE> {UNIT <UNIT-NO> {0 TO 1},
 PM}
 <SOURCE> {CC [<FILE> STRING],
 MATE [<BANK> {STBY,
 ACT}],
 SELFACT}
 [<NOCHECK> {NOCHECK}]
 [<NOWAIT> {NOWAIT}]
 [<ALL> {ALL}]
```

The following table describes the parameters and variables of the LOADPM command.

(Sheet 1 of 2)

| Parameters and variables | Value | Description           |
|--------------------------|-------|-----------------------|
| <DEVICE>                 | NA    | Load the whole device |
| UNIT                     | NA    | Load a unit only      |

**loadpm** (continued)

(Sheet 2 of 2)

| Parameters and variables | Value | Description                                                                                                                                                                                                                                                 |
|--------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PM                       | NA    | Load the whole peripheral module                                                                                                                                                                                                                            |
| <SOURCE>                 | NA    | Source of the load                                                                                                                                                                                                                                          |
| CC                       | NA    | Loads the target from the CM                                                                                                                                                                                                                                |
| MATE                     | NA    | MATE loads the unit from the mate active or standby bank. MATE uses the optional parameter BANK. BANK parameter can have values<br>STBY - from the mate standby bank<br>ACT - from the mate active bank<br>When BANK is not specified, the default is STBY. |
| SELFFACT                 | NA    | SELFFACT Copies the load from the active bank to the standby bank.                                                                                                                                                                                          |
| [<NOCHECK>]              | NA    | Optional parameter<br>The NOCHECK parameter executes the LOADPM command without a safe replacement check.                                                                                                                                                   |
| [<NOWAIT>]               | NA    | Optional parameter<br>The NOWAIT parameter executes the LOADPM command and returns the prompt immediately without results.                                                                                                                                  |
| [<ALL>]                  | NA    | Optional parameter<br>The ALL parameter executes the LOADPM command on all PMs in the post set of the same PM type as the PM displayed on the MAP.                                                                                                          |

**Responses**

The following table provides examples of the MAP responses for LOADPM.

**MAP responses with associated meanings and actions**

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Command:             | >LOADPM UNIT 0 CC                                                                                       |
| Description of task: | Response for successful completion of LOADPM command performed on an in-service or out-of-service unit. |
| MAP response:        | UEN HOST 02 0 Unit 0 LoadPM passed                                                                      |
| Actions:             | The LOADPM command loads the UEN unit.                                                                  |

**loadpm** (end)**MAP responses with associated meanings and actions (continued)**

|                             |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | >LOADPM UNIT 1 SELFACT                                                                                                                                                                                                                                                                                           |
| <b>Description of task:</b> | Response for LOADPM with SELFACT option when performed on a unit that is in OOS.                                                                                                                                                                                                                                 |
| <b>MAP response:</b>        | UEN HOST 02 0 Unit Request Invalid Unit must be InSv or ISTb for SELFACT option                                                                                                                                                                                                                                  |
| <b>Actions:</b>             | LOADPM command is rejected. An RTS command is necessary before the LOADPM with the SELFACT option again.                                                                                                                                                                                                         |
| <b>Command:</b>             | >LOADPM UNIT 1 CC ALL                                                                                                                                                                                                                                                                                            |
| <b>Description of task:</b> | LOADPM with the CC option loads from the CM. The ALL option loads multiple UENs as available.                                                                                                                                                                                                                    |
| <b>MAP response:</b>        | <p>This operation will be performed on 2 UENs<br/>Please confirm ("YES", "Y", "NO", or "N"):<br/>&gt;Y</p> <p>UEN HOST 02 0 Unit 1Load request submitted<br/>UEN HOST 02 1 Unit 1 Load request submitted<br/>UEN HOST 02 0 Unit 1 LoadPM Passed<br/>UEN HOST 02 0 Unit 1 LoadPM Passed<br/>Summary: 2 passed</p> |
| <b>Actions:</b>             | The UENs in the posted set are loaded simultaneously.                                                                                                                                                                                                                                                            |

## querypm

---

### Type

The QUERYPM command is a menu listed command.

### Target

The command target for the QUERYPM command is ALL.

### Description

The QUERYPM command displays information about a posted ESA RLCM.

The QUERYPM command displays information about the posted universal edge 9000 (UEN). The output includes the memory sizes (8M) of the UEN units. The command includes the names of the loads in the active and standby banks of each unit. The QUERYPM command, without options, does not output any loadname information for out-of-service (OOS) units. To get the loadnames for a manually busied (MANB) unit, use the QUERYPM command with the OOS option. The QUERYPM command is not valid for system busied (SYSB) units.

### Release history

#### NA012

Feature 59008344 improved command QUERYPM to display the firmware load name for the NTMX45 ESA processor.

Feature 59006196 improved command QUERYPM to display information about the posted universal edge 9000.

### Limitations and restrictions

The QUERYPM CNTRS command functions when the ESA shelf is in the task level.

### Syntax

The QUERYPM command syntax is as follows:

```
QUERYPM [<OPTION>{FLT
 CNTRS [<CLEAR CNTRS> {CLEAR}],
 LSG,
 OOS
 ALL}]
```

**querypm** (continued)

The following table describes the parameters and variables of the QUERYPM command:

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                                                                                                                                   |
|--------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <OPTION>                 | N/A   | Optional parameter                                                                                                                                                            |
| FLT                      | N/A   | This parameter displays the reasons for In-Service Trouble (ISTb or SYSB) on the ESA processor.                                                                               |
| CNTRS                    | N/A   | This parameter displays the following: <ul style="list-style-type: none"> <li>• RAM and ROM load names</li> <li>• EPROM version</li> <li>• ESA processor card type</li> </ul> |
| CNTRS (UEN only)         | N/A   | This option queries the values of the DMSX message counters from an in-service unit.                                                                                          |
| LSG                      | N/A   | This option queries LSG information.                                                                                                                                          |
| OOS                      | N/A   | This option is valid only for a MANB unit.                                                                                                                                    |
| ALL                      | N/A   | This option ALL allows an OOS unit to be queried.                                                                                                                             |

**Responses**

The following table provides examples of the QUERYPM command:

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                             |                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;QUERYPM</b>                                                                                                                                                                                                              |
| <b>Description of task:</b> | Displays the status of the ESA RLCM and includes the firmware loadname for the NTMX45AA ESA processor.                                                                                                                          |
| <b>MAP response:</b>        | PM Type: ESA PM No.: 4 PM Int. No.: 0 Node_No.: 41<br>PMS Equipped: 20 Loadname: MSA12AR EPROM Load: UPFWNP03<br>NODE STATUS: {Ok, FALSE}<br>Site Flr RPos Bay_id Shf Description Slot EqPEC<br>REM1 02 D06 RLCM 10 00 ESA: 004 |
| <b>Actions:</b>             | Displays information about the status and equipment in the ESA RLCM.                                                                                                                                                            |
| <b>Command:</b>             | <b>&gt;QUERYPM OOS</b>                                                                                                                                                                                                          |

**querypm (end)****MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description of task:</b> | Displays information about the posted UEN obtained by the QUERYPM command with no options. Other information may be different based on the configuration and datafill in the office. In the example, unit 0 is in the MANB state.                                                                                                                                                                                                                           |
| <b>MAP response:</b>        | <pre> PM Type: UEN Int. No.: 4 Status index: 3 Node_No.: 67 UEN HOST 02 0 Memory size - unit 0:8M, Unit 1: 8M Loadname: LCMINV - UEN12BE Unit1 Loads: Act - UEN12BE. Stby - UEN12BE. UEN REX is ON; not run since last reload restart. NODE STATUS: {Ok, FALSE} Unit 1 Status {MAN_BUSY, FALSE} Site Flr RPos Bay_id Shf Description Slot EqPEC Host 01 E35 UEE 02 51 UEN 02 0 KX00AA World Line Card Template(s) in use:   NP44AA Services: NEUTRAL </pre> |
| <b>Actions:</b>             | Displays information about the posted UEN.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Command:</b>             | <b>&gt;QUERYPM CNTRS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description of task:</b> | Display information about the status of the ESA RLCM, the firmware loadname for the NTMX45AA ESA processor, and the RAM loadname.                                                                                                                                                                                                                                                                                                                           |
| <b>MAP response:</b>        | <pre> RLCM ESA      4 ISTb QueryPM cntrs Unsolicited msg limit = 250, count = 0 Ram Load: MSA12AR EPRom Version: AC01 EPRom Load: Loadable: NP03, Executable: NP03 EP:MX45AA </pre>                                                                                                                                                                                                                                                                         |
| <b>Actions:</b>             | Displays information about the counters for the posted UEN.                                                                                                                                                                                                                                                                                                                                                                                                 |

---

**rts**

---

**Type**

The RTS (return to service) command is a menu command.

**Target**

The command target for the RTS command is ALL.

**Description**

The RTS command is used to return a Universal edge 9000 (UEN) or an line subgroup (LSG) of a UEN to service. The SWLD option copies the load from the standby bank to the active bank and returns the unit to service.

**Release history****NA012**

Feature 59006196 introduced the RTS command for the Universal edge 9000.

**Limitations and restrictions**

The RTS command has no limits or restrictions.

**Syntax**

The RTS command syntax is as follows:

```
RTS <DEVICE> {UNIT <UNIT> {0 TO 1},
 PM,
 LSG <LSG_NO> {0 TO 15}}
 [<SWLD> {SWLD}]
 [<FORCE> {FORCE}]
 [<NOWAIT> {NOWAIT}]
 [<ALL> {ALL}]
```

The following table describes the parameters and variables of the RTS command:

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value | Description                                  |
|--------------------------|-------|----------------------------------------------|
| <DEVICE>                 | NA    | Device to be returned to service             |
| UNIT                     | NA    | Return a unit to service                     |
| PM                       | NA    | Return the peripheral module (PM) to service |



**rts** (continued)**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value | Description                                                                                                                                                    |
|--------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LSG                      | NA    | Return the line subgroup to service. The LSG_NO is the same as the DRWR_NO of a line concentrating module (LCM).                                               |
| [<SWLD>]                 | NA    | Optional parameter<br>The SWLD parameter copies the load from the standby bank to the active bank. It is valid only when used with PM or UNIT options.         |
| [<FORCE>]                | NA    | Optional parameter<br>The FORCE parameter executes the RTS command without running diagnostic procedures.                                                      |
| [<NOWAIT>]               | NA    | Optional parameter<br>The NOWAIT parameter executes the RTS command and returns the prompt immediately without waiting for results.                            |
| [<ALL>]                  | NA    | Optional parameter<br>The ALL parameter executes the RTS command on all peripheral modules in the post set of the same PM type as the PM displayed on the MAP. |

**Responses**

The following table explains possible responses to the RTS command.

**Map responses with associated meanings and actions (Sheet 1 of 2)**

|                             |                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt; RTS UNIT 1</b>                                                                                                                                          |
| <b>Description of task:</b> | The successful response of the RTS command performed on a MANB unit.                                                                                            |
| <b>MAP response:</b>        | UEN HOST 01 0 Unit 1 OSvce Tests Initiated<br>UEN HOST 01 0 Unit 1 Tst Passed<br>UEN HOST 01 0 Unit 1 Rts Passed<br>UEN HOST 01 0 Unit 1 InSvce Tests Initiated |
| <b>Actions:</b>             | The RTS command returns the unit to service.                                                                                                                    |
| <b>Command:</b>             | <b>&gt;RTS UNIT 1</b>                                                                                                                                           |
| <b>Description of task:</b> | The unsuccessful response of the RTS command performed on a unit that is SysB.                                                                                  |

**Map responses with associated meanings and actions (Sheet 2 of 2)**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b>        | UEN HOST 01 0 Request Invalid: Unit 1 is SysB                                                                                                                                                                                                                                                                                                                                                          |
| <b>Actions:</b>             | Perform a Bsy to bring the unit to MANB before issuing the RTS command.                                                                                                                                                                                                                                                                                                                                |
| <b>Command:</b>             | >RTS UNIT 1<br>>RTS UNIT 1 SWLD                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description of task:</b> | The response observed when the RTS command (with or without the SWLD option) is issued to a UEN that has an invalid load in the active bank.                                                                                                                                                                                                                                                           |
| <b>MAP response:</b>        | UEN HOST 01 0 Invalid Active load<br>Use QUERYPM to check loads                                                                                                                                                                                                                                                                                                                                        |
| <b>Actions:</b>             | If the response was the result of an RTS command without the SWLD option, issue the command with the SWLD option to bring the unit back into service. If the same response is observed for RTS commands with or without the SWLD option, load the unit with a valid load module using the LOADPM command. The unit can be returned to service with the RTS SWLD command when the loading is completed. |

## swld

---

### Type

The SWLD command is a menu command.

### Target

The command target for the SWLD command is ALL.

### Description

The SWLD (switch load) command is used on an INSV node. The UNIT option of SWLD does the following:

- places the specified unit in OOS (out-of-service) mode
- internally copies the load from the standby bank to the active bank
- places the unit back into service

The PM option performs the above sequence once for each unit.

The SWLD command will not place the UEN node completely out-of-service under any condition.

### Release history

The SWLD command is new for the Universal Edge 9000.

#### NA012

Feature 59006196 adds the SWLD command.

### Limitations and restrictions

The SWLD command has no limits or restrictions.

### Syntax

The SWLD command syntax is as follows:

```
SWLD <DEVICE> {UNIT <UNIT_NO> {0 TO 1},
 PM}
 [<NOWAIT> {NOWAIT}]
 [<ALL> {ALL}]
```

**swld** (continued)

The following table describes the parameters and variables for the SWLD command:

| Parameters and variables | Value | Description                                                                                                                                                     |
|--------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <DEVICE>                 | NA    | Device to have the load switched                                                                                                                                |
| UNIT                     | NA    | Switch the load in a unit                                                                                                                                       |
| PM                       | NA    | Switch the load in the peripheral module (PM)                                                                                                                   |
| [<NOWAIT>]               | NA    | Optional parameter<br>The NOWAIT parameter executes the SWLD command and returns the prompt immediately without waiting for results.                            |
| [<ALL>]                  | NA    | Optional parameter<br>The ALL parameter executes the SWLD command on all peripheral modules in the post set of the same PM type as the PM displayed on the MAP. |

**Responses**

The following table explains possible responses to the SWLD command:

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                             |                                                                                                                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | >SWLD UNIT 1                                                                                                                                                                                                      |
| <b>Description of task:</b> | The SWLD command switches the loads in the units.                                                                                                                                                                 |
| <b>MAP response:</b>        | Existing loads:<br>Unit 1: Act: UEN12BE Stby: UEN12BF<br>New loads after a successful SWLD will be:<br>Unit 1: Act: UEN12BF Stby: UEN12BF<br><br>Do you wish to continue? Please confirm ("YES", "Y", "NO", "N"): |
| <b>Actions:</b>             | Upon confirmation, the system busies the unit, copies the load from the standby bank to the active bank, and returns the unit to service.                                                                         |
| <b>Command:</b>             | >SWLD UNIT 0                                                                                                                                                                                                      |
| <b>Description of task:</b> | Response is observed when the SWLD command is performed on an out-of-service node.                                                                                                                                |

## **swld** (end)

---

### **MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                             |                                                                                                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b>        | UEN HOST 02 0<br>Unit 0 Request Invalid<br>Unit must be either InSv or ISTb                                                                                                                 |
| <b>Actions:</b>             | The system rejects the command. Use the RTS command to restore the unit to service, and then issue the SWLD command again. Alternatively, the RTS command with the SWLD option can be used. |
| <b>Command:</b>             | <b>&gt;SWLD UNIT 0</b>                                                                                                                                                                      |
| <b>Description of task:</b> | This response is observed when the SWLD command is performed on the unit when the mate is in OOS state.                                                                                     |
| <b>MAP response:</b>        | UEN HOST 02 0<br>Unit 0 Request Invalid<br>Mate must be either InSv or ISTb                                                                                                                 |
| <b>Actions:</b>             | The system rejects the command. Alternatively, the RTS command with the SWLD option can be used to return the unit to service.                                                              |

---

## 32 XIPVER level commands

---

This chapter provides an overview of the XIPVER level. This chapter also provides detailed information on new or changed commands in the XIPVER level.

The following table alphabetically lists the commands available at the OCDL level.

**Table 32-1 (Sheet 1 of 2)**

| Command     |
|-------------|
| close       |
| comidbind   |
| comidunbind |
| connect     |
| dip         |
| dp          |
| forceclose  |
| getpminfo   |
| help        |
| message     |
| packetsize  |
| ping        |
| pingtimeout |
| q           |
| querycomid  |

Table 32-1 (Sheet 2 of 2)

| Command   |
|-----------|
| quit      |
| reset     |
| rr        |
| send      |
| show      |
| showusers |
| tcpserver |
| timeout   |
| trace     |
| traceset  |
| ttlive    |
| udpsocket |

Description

This level of the MAP provides commands for initiating user datagram protocol (UDP) and transmission control protocol (TCP) transactions from the computing module (CM) to nodes on the Ethernet LAN using an SX05 equipped extended peripheral module (XPM).

The following tables require datafill for the XIPVER tool. Sample datafill is shown.

|                 |         |          |     |     |     |          |  |
|-----------------|---------|----------|-----|-----|-----|----------|--|
| >table xpmipmap |         |          |     |     |     |          |  |
| XPMNAME         | AUTONEG | SUBNMASK |     |     |     | IPCONFIG |  |
| <hr/>           |         |          |     |     |     |          |  |
| DTC 4           | AUTO    | 255      | 255 | 255 | 240 | BOOTP    |  |

```
>table ipsvcs
```

| SERVICE | PORT | PROTOCOL |
|---------|------|----------|
| XIPVER  | 5000 | TCP_UDP  |
| XIPVER2 | 5050 | TCP_UDP  |

```
>table ipcomid
```

| COMID | SERVICE | XPMNAME |
|-------|---------|---------|
| 100   | XIPVER  | DTC 4   |
| 200   | XIPVER2 | DTC 4   |

## How to access the XIPVER level

Access the XIPVER level from the CI environment. Note, up to 10 sessions can be run simultaneously.

```
> xipver
```

## How to return to the CI

Return to the CI environment:

```
> quit
```



## **close (xipver)**

---

### **Type**

The CLOSE command is a nonmenu command.

### **Target**

The command target for the CLOSE command is BRISC.

### **Description**

The CLOSE command disconnects all the connections and closes all open sockets for the XIPVER tool session.

### **Release history**

This section identifies if the command is new or changed, and the applicable software release.

#### **TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### **Qualifications and warnings**

The qualifications and warnings are as follows:

- If a socket parameter is entered, only that socket is closed.
- The closing of the listening socket in a TCP server results in closing all of the sockets associated with the server.
- The socket number parameter has to be associated with the XIPVER tool. The CLOSE command cannot be used to close sockets associated with other applications. The FORCECLOSE command can be used to close sockets in use by other XIPVER sessions or other applications.
- If no parameter is specified, all connections and sockets associated with the XIPVER tool are closed.

### **Syntax**

The CLOSE command syntax is as follows:

```
> close <socket number (-1 to 32767)> (optional parameter)
```

When the optional parameter is used, only the entered socket number is closed.

**close (xipver)** (continued)**Examples**

The following table provides examples of the CLOSE command.

**Command example**

|                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| <b>Command:</b>             | > close                                                         |
| <b>Description of task:</b> | All connections are broken, followed by closing of all sockets. |
| <b>MAP response:</b>        | Closed all connections and sockets associated with XIPVER tool  |
| <b>Command:</b>             | > close 10                                                      |
| <b>Description of task:</b> | Close the specified socket.                                     |
| <b>MAP response:</b>        | Closed socket 10.                                               |
| <b>Command:</b>             | > close 201                                                     |
| <b>Description of task:</b> | Close the specified socket.                                     |
| <b>MAP response:</b>        | Socket number 201 does not belong to this XIPVER tool session.  |

**Complete process examples**

The following table provides examples for the whole process of closing according to the set up.

**Command examples (Sheet 1 of 5)**

|                                    |                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description of task:</b>        | Close a TCP server                                                                                                                                                                                                                                                                                                         |
| <b>Commands and MAP responses:</b> | <pre>&gt;tcpserver 13:03:56.033 TCP server created  &gt;close This command will close all connections and sockets associated with XIPVER tool Are you sure you want to continue? (Yes/No) Please confirm ("YES", "Y", "NO", or "N"): &gt;y 13:03:59.655 Closed all sockets and connections associated with COMID 100</pre> |
| <b>Description of task:</b>        | Close a socket on a TCP server.                                                                                                                                                                                                                                                                                            |

## close (xipver) (continued)

---

### Command examples (Sheet 2 of 5)

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Commands and<br/>MAP responses:</b> | <pre>&gt;comidbind 100 COMID: 100  &gt;tcpserver 12:54:21.310 TCP server created &gt;querycomid 100 COMID Status      :ACTIVE Socket Port Type   :TCP Local Socket ID    :494 Local Socket State :LISTENING Local IP Address   :47.245.1.20 Local Port         :8888  12:55:59.304 Connection made with 47.245.1.20:8888 thru 493 socket  &gt;querycomid 100 COMID Status      :ACTIVE Socket Port Type   :TCP Local Socket ID    :494 Local Socket State :LISTENING Local IP Address   :47.245.1.20 Local Port         :8888          Connected Socket ID    [0]:493         Connected Socket State  [0]:ESTABLISHED         Remote IP Address       [0]:47.142.226.106         Remote Port             [0]:14000</pre> |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

**close (xipver)** (continued)

---

**Command examples (Sheet 3 of 5)****Commands and  
MAP responses  
(continued):**

```
>close 493

This command will close all connections associated with socket 493
Are you sure you want to continue? (Yes/No)
Please confirm ("YES", "Y", "NO", or "N"):
y
12:56:53.982 Closed Socket 493 and all connections associated with it.

>querycomid 100
COMID Status :ACTIVE
Socket Port Type :TCP
Local Socket ID :494
Local Socket State:LISTENING
Local IP Address :47.245.1.20
Local Port :8888
```

**Description of task:** Close a listening socket on a TCP server

## close (xipver) (continued)

---

### Command examples (Sheet 4 of 5)

**Commands and  
MAP responses:**

```
>querycomid 100
COMID Status :ACTIVE
Socket Port Type :TCP
Local Socket ID :494
Local Socket State:LISTENING
Local IP Address :47.245.1.20
Local Port :8888

12:58:54.448 Connection made with 47.245.1.20:8888 thru 492 socket

>querycomid 100
COMID Status :ACTIVE
Socket Port Type :TCP
Local Socket ID :494
Local Socket State:LISTENING
Local IP Address :47.245.1.20
Local Port :8888

 Connected Socket ID [0]:492
 Connected Socket State [0]:ESTABLISHED
 Remote IP Address [0]:47.142.226.106
 Remote Port [0]:14000

>close 494
This command will close all connections associated with socket 494
Are you sure you want to continue? (Yes/No)
Please confirm ("YES", "Y", "NO", or "N"):
>y
12:59:29.092 Closed Socket 494 and all connections associated with it.
```

**close (xipver) (end)****Command examples (Sheet 5 of 5)**

|                                                |                                                                                                                                                                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Commands and MAP responses (continued):</b> | <pre>&gt;querycomid 100 COMID Status      :INACTIVE</pre>                                                                                                                                                                                                               |
| <b>Description of task:</b>                    | Close a TCP client or UDP socket                                                                                                                                                                                                                                        |
| <b>Commands and MAP responses:</b>             | <pre>&gt;close This command will close all connections and sockets associated with XIPVER tool  Are you sure you want to continue? (Yes/No) Please confirm ("YES", "Y", "NO", or "N"):  &gt;y 14:55:06.778 Closed all sockets and connections associated with 100</pre> |

**Responses**

The following table explains possible responses to the CLOSE command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Closed all connections and sockets associated with XIPVER tool.                                 |
| <b>Meaning:</b>      | The XIPVER tool has successfully closed all the open connections and sockets associated with it |
| <b>Actions:</b>      | None                                                                                            |
| <b>MAP response:</b> | Socket number <socket number> does not belong to this XIPVER tool session.                      |
| <b>Meaning:</b>      | The specified socket number does not belong to the XIPVER session.                              |
| <b>Actions:</b>      | Check the socket number with the QUERYCOMID command.                                            |
| <b>MAP response:</b> | Closed socket <socket number>.                                                                  |
| <b>Meaning:</b>      | The XIPVER tool has successfully closed all specified socket number.                            |
| <b>Actions:</b>      | None                                                                                            |

## comidbind (xipver)

---

### Type

The COMIDBIND command is a nonmenu command.

### Target

The command target for the COMIDBIND command is BRISC.

### Description

The COMIDBIND command associates an XPM with a port to use for IP communication. This command sets the COMID that the XIPVER tool uses for IP data communication. The COMID must be first datafilled in table IPCOMID.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follow:

- The COMID must be datafilled in table IPCOMID. One COMID can be used by only one application. If any application is already using a COMID, it can not be assigned to the tool.
- The valid range for COMIDs is 0 to 1023.
- Once an XIPVER tool session is assigned against a COMID, it can not be cleared by the RESET command. The only way to clear it is to use the COMIDUNBIND command..

### Syntax

The COMIDBIND command syntax is as follows:

```
> comidbind <communication id (0 to 1023)>
```

**comidbind (xipver)** (continued)**Example**

The following table provides an example of the COMIDBIND command.

**Command example**

|                             |                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > comidbind                                                                                                                                                                  |
| <b>Description of task:</b> | If the COMIDBIND command is used without any parameter, the current COMID value is displayed.                                                                                |
| <b>MAP response:</b>        | COMID: NIL                                                                                                                                                                   |
| <b>Command:</b>             | > comidbind acd                                                                                                                                                              |
| <b>Description of task:</b> | If an incorrect format is used for the parameter, the COMID value is not updated. An example of an incorrect format is a parameter that is not in the valid range of 0-1023. |
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>COMID: NIL                                                                                                 |
| <b>Command:</b>             | > comidbind 2                                                                                                                                                                |
| <b>Description of task:</b> | If the COMIDBIND command is used with a correct parameter that is datafilled in IPCOMID and not used by another application, it is also assigned to XIPVER.                  |
| <b>MAP response:</b>        | COMID: 2                                                                                                                                                                     |
| <b>Command:</b>             | > comidbind 3                                                                                                                                                                |
| <b>Description of task:</b> | Once the COMID parameter is already set for the XIPVER tool, it cannot be reassigned.                                                                                        |
| <b>MAP response:</b>        | COMID request denied: COMID 3 is already bound to another application                                                                                                        |
| <b>Command:</b>             | > comidbind 600                                                                                                                                                              |
| <b>Description of task:</b> | If the COMID is in the valid range (0-1023), but not datafilled in table IPCOMID, it cannot be assigned.                                                                     |
| <b>MAP response:</b>        | COMID request denied: COMID 600 is not datafilled in table IPCOMID.                                                                                                          |



## **comidbind (xipver) (end)**

---

### **Responses**

The following table explains possible responses to the COMIDBIND command.

#### **MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | COMID: <Communication ID>                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Meaning:</b>      | Output the communication ID.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Actions:</b>      | If the value specified by the command parameter was in correct format, the COMID parameter is updated with it. If the value specified by the command parameter was in an incorrect format or if the COMID is already in use, the COMID parameter is not updated and the current COMID value is output. If the desired value is not set for the COMID parameter, re-enter the command using the correct format. |

---

**comidunbind (xipver)**

---

**Type**

The COMIDUNBIND command is a nonmenu command.

**Target**

The command target for the COMIDUNBIND command is BRISC.

**Description**

The COMIDUNBIND command disassociates an XPM with a port used for IP communication.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

**Qualifications and warnings**

The qualifications and warnings are as follows:

- The XIPVER tool must be bound to a COMID before using this command. Command COMIDBIND binds the XIPVER tool to a COMID.
- This command also closes all the connections and sockets associated with the XIPVER tool COMID.

**Syntax**

The COMIDUNBIND command syntax is as follows:

```
> comidunbind
```

**Example**

The following table provides an example of the COMIDUNBIND command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > comidunbind 20                                                                                  |
| <b>Description of task:</b> | If a parameter is entered, the COMID value is not released since no parameters should be entered. |

**comidunbind (xipver) (end)**

---

**Command example (Sheet 2 of 2)**

|                             |                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------|
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>COMID: 10                   |
| <b>Command:</b>             | > comidunbind                                                                                 |
| <b>Description of task:</b> | If the COMIDUNBIND command is entered with no parameter, the COMID is released.               |
| <b>MAP response:</b>        | 05:39:35.235 XIPVER tool unbound from COMID 20.<br>COMID: NIL                                 |
| <b>Command:</b>             | > comidunbind                                                                                 |
| <b>Description of task:</b> | If the COMIDUNBIND command is entered and no COMID is bound, the request is denied.           |
| <b>MAP response:</b>        | 05:41:50.932 COMIDUNBIND request denied: XIPVER tool is not bound to any COMID.<br>COMID: NIL |

**Responses**

The following table explains possible responses to the COMIDUNBIND command.

**MAP responses with associated meanings and actions**

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| <b>MAP response:</b> | 05:39:35.235 XIPVER tool unbound from COMID 20.<br>COMID: NIL    |
| <b>Meaning:</b>      | Release the communication ID.                                    |
| <b>Actions:</b>      | If no command parameter is entered, the bound COMID is released. |

---

**connect (xipver)**

---

**Type**

The CONNECT command is a nonmenu command.

**Target**

The command target for the CONNECT command is BRISC.

**Description**

The CONNECT command makes a TCP connection. This command uses the destination IP address and destination port parameters. These parameters are set with the DIP and DP commands, respectively.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

**Qualifications and warnings**

The qualifications and warnings are as follows:

- The desired destination IP address and port number must be set using the DIP and DP commands before making a connection.
- The XIPVER tool should not be currently set up as a TCP client, TCP server, nor UDP socket before using this command.

**Syntax**

The CONNECT command syntax is as follows:

```
> connect
```

**Example**

The following table provides an example of the CONNECT command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt; connect</b>                                                                            |
| <b>Description of task:</b> | If the XIPVER tool is already connected to a remote machine, the connection request is denied. |
| <b>MAP response:</b>        | Connection Request Denied. Already connected to 120.32.54.12:103                               |

**connect (xipver)** (continued)

---

**Command example (Sheet 2 of 2)**

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| <b>Command:</b>             | > connect                                                                           |
| <b>Description of task:</b> | If the XIPVER tool is already set up as a server, the connection request is denied. |
| <b>MAP response:</b>        | Connection Request Denied. Already listening as a TCP server.                       |
| <b>Command:</b>             | > connect                                                                           |
| <b>Description of task:</b> | If the connection is successfully established, the connection success is displayed. |
| <b>MAP response:</b>        | 10:40:39.148 TCP Client created: Connected to 190.32.43.54:1044                     |
| <b>Command:</b>             | > connect                                                                           |
| <b>Description of task:</b> | If the connection is unsuccessful, the reason for failure is displayed.             |
| <b>MAP response:</b>        | Connection Failed: <Reason>                                                         |

**Responses**

The following table explains possible responses to the CONNECT command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <Source Address>:<Source Port> TCP Client created. Connected to <Destination Address>:<Destination Port>         |
| <b>Meaning:</b>      | The XIPVER tool has successfully established a TCP connection with the destination machine.                      |
| <b>Actions:</b>      | Send a message to the destination machine by using the SEND command                                              |
| <b>MAP response:</b> | Connection Request Denied. Already connected to <Destination Address>:<Destination Port>                         |
| <b>Meaning:</b>      | The XIPVER tool is already connected with some destination machine.                                              |
| <b>Actions:</b>      | Either close the current connection by using the CLOSE command or open XIPVER in another MAP session to connect. |
| <b>MAP response:</b> | Connection Request Denied. Already set up as a UDP socket.                                                       |
| <b>Meaning:</b>      | The XIPVER tool is already being used as a UDP socket.                                                           |
| <b>Actions:</b>      | Either close the current UDP socket by using the CLOSE command or open XIPVER in another MAP session to connect. |

---

**connect (xipver) (end)**

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Connection Request Denied. Already listening as a TCP server.                                                |
| <b>Meaning:</b>      | The XIPVER tool is already being used as a server.                                                           |
| <b>Actions:</b>      | Either close the current server by using the CLOSE command or open XIPVER in another MAP session to connect. |

## dip (xipver)

---

### Type

The DIP command is a nonmenu command.

### Target

The command target for the DIP command is BRISC.

### Description

The DIP command sets or displays the destination address. This destination address is used by the SEND, PING and CONNECT commands.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- The IP address should be four numbers, each in the range 0-255, separated by spaces.

### Syntax

The DIP command syntax is as follows:

```
> dip <ip address> (optional parameter)
```

The IP address parameter is made up of four numbers, each in the range of 0-255 and separated by a space.

### Example

The following table provides an example of the DIP command.

#### Command example (Sheet 1 of 2)

|                             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| <b>Command:</b>             | > DIP                                                                              |
| <b>Description of task:</b> | If the DIP command is used without any parameter, the current DIP value is output. |
| <b>MAP response:</b>        | DIP: NIL                                                                           |

**dip (xipver) (end)****Command example (Sheet 2 of 2)**

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| <b>Command:</b>             | > DIP IP a b c d<br>> DIP IP 1 b<br>> DIP XYA<br>> DIP 11 23 32 3                 |
| <b>Description of task:</b> | If an incorrect format is used for the parameters, the DIP value is not updated   |
| <b>MAP response:</b>        | DIP: NIL                                                                          |
| <b>Command:</b>             | > DIP 175 21 56 103                                                               |
| <b>Description of task:</b> | If the DIP command is used with the correct parameters, the DIP value is updated. |
| <b>MAP response:</b>        | DIP: 175 21 56 103                                                                |

**Responses**

The following table explains possible responses to the DIP command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | DIP: <Destination Address>                                                                                                                                                                                                                                                                                                                                       |
| <b>Meaning:</b>      | Output the destination address.                                                                                                                                                                                                                                                                                                                                  |
| <b>Actions:</b>      | If the value specified by the command parameter was in correct format, the DIP parameter is updated with it. If the value specified by the command parameter was in an incorrect format, the DIP parameter is not updated and current DIP value is output. If the desired value is not set for the DIP parameter, re-enter the command using the correct format. |



## dp (xipver)

---

### Type

The DP command is a nonmenu command.

### Target

The command target for the DP command is BRISC.

### Description

The DP command sets or displays the destination port number of the destination application running on a remote machine. This destination port is used by the SEND, PING and CONNECT commands.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- The Port number must be a valid integer between 0 to 65535.

### Syntax

The DP command syntax is as follows:

```
> dip <port number in the range 0 to 65535> (optional parameter)
```

### Example

The following table provides an example of the DP command.

#### Command example (Sheet 1 of 2)

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>Command:</b>             | > DP                                                                             |
| <b>Description of task:</b> | If the DP command is used without any parameter, the current DP value is output. |
| <b>MAP response:</b>        | DP: NIL                                                                          |

**dp (xipver) (end)****Command example (Sheet 2 of 2)**

|                             |                                                                                |
|-----------------------------|--------------------------------------------------------------------------------|
| <b>Command:</b>             | > DP abcd<br>> DP 1 1 2 3<br>> DP IP 20<br>> DP a b<br>> DP 1123b              |
| <b>Description of task:</b> | If an incorrect format is used for the parameter, the DP value is not updated. |
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>DP: 0        |
| <b>Command:</b>             | > DP 8078                                                                      |
| <b>Description of task:</b> | If the DP command is used with a correct parameter, the DP value is updated.   |
| <b>MAP response:</b>        | DP: 8078                                                                       |

**Responses**

The following table explains possible responses to the DP command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | DP: <Port Number>                                                                                                                                                                                                                                                                                                                                            |
| <b>Meaning:</b>      | Output the destination application port number.                                                                                                                                                                                                                                                                                                              |
| <b>Actions:</b>      | If the value specified by the command parameter was in correct format, the DP parameter is updated with it. If the value specified by the command parameter was in an incorrect format, the DP parameter is not updated and current DP value is output. If the desired value is not set for the DP parameter, re-enter the command using the correct format. |

## **forceclose (xipver)**

---

### **Type**

The FORCECLOSE command is a nonmenu command.

### **Target**

The command target for the FORCECLOSE command is BRISC.

### **Description**

The FORCECLOSE command closes all sockets associated with a given COMID that is used for a TCP server. The CLOSE command only closes the sockets associated with the XIPVER tool COMID. NOTE: The FORCECLOSE command should be used with extreme care as it can close sockets which may be associated with COMIDs used by applications other than the XIPVER tool.

To determine if a COMID is for a TCP server, check tables IPCOMID and IPSVCS.

### **Release history**

This section identifies if the command is new or changed, and the applicable software release.

#### **TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### **Qualifications and warnings**

The qualifications and warnings are as follows:

- **WARNING:** This command must be used with extreme care as it can close sockets which are in use by other applications. Use the SHOWUSERS command to display other users.
- Closing the listening socket of a TCP server closes all sockets associated with the server.

### **Syntax**

The FORCECLOSE command syntax is as follows:

```
> forceclose <comid: 0 to 1023> <socket id: 0 to 32767 or ALL>
```

**forceclose (xipver)** (continued)

Notes are as follows:

- Both parameters are required.
- The comid parameter must be bound by the COMIDBIND command.
- The socket id parameter can indicate either a single socket or ALL sockets for the COMID.

**Example**

The following table provides an example of the FORCECLOSE command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > FORCECLOSE                                                                                      |
| <b>Description of task:</b> | If the FORCECLOSE command is used without any parameter, an error message is displayed.           |
| <b>MAP response:</b>        | Next par is: <COMID> {0 TO 1023}<br>Enter: <COMID> <Option>                                       |
| <b>Command:</b>             | > FORCECLOSE 19<br>> FORCECLOSE A                                                                 |
| <b>Description of task:</b> | If an unbound COMID or wrong type of parameter is entered, an error message is displayed..        |
| <b>MAP response:</b>        | Wrong type: <COMID> {0 TO 1023}<br>Enter: <COMID> <Option>                                        |
| <b>Command:</b>             | > FORCECLOSE 200 ALL                                                                              |
| <b>Description of task:</b> | If the FORCECLOSE command is used with correct parameters, the connection and sockets are closed. |

---

**forceclose (xipver) (end)**

---

**Command example (Sheet 2 of 2)**

|                             |                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b>        | This command will close ALL sockets and connections associated with COMID 200<br>Are you sure you want to continue? (Yes/No)<br>Please confirm ("YES", "Y", "NO", or "N"):<br>>y<br>13:01:38.252 Force closed all sockets and connections associated with COMID 200<br><br>>querycomid 200<br>COMID Status :INACTIVE |
| <b>Command:</b>             | > FORCECLOSE 22 ALL                                                                                                                                                                                                                                                                                                  |
| <b>Description of task:</b> | If the FORCECLOSE command is used with a COMID that is not for a TCP server, an error message is displayed.                                                                                                                                                                                                          |
| <b>MAP response:</b>        | This command will close ALL sockets and connections associated with COMID 22<br>Are you sure you want to continue? (Yes/No)<br>Please confirm ("YES", "Y", "NO", or "N"):<br>>y<br>07:33:53.960 FORCECLOSE request failed: BAD COMID                                                                                 |

**Responses**

The following table explains possible responses to the FORCECLOSE command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | FORCECLOSE <comid 0 to 1023> <socket id -1 to 32767 or ALL>                                                    |
| <b>Meaning:</b>      | Output the destination application port number.                                                                |
| <b>Actions:</b>      | If the value specified by the command parameter was in correct format, the indicated COMID sockets are closed. |

---

**getpminfo (xipver)**

---

**Type**

The GETPMINFO command is a nonmenu command.

**Target**

The command target for the GETPMINFO command is BRISC.

**Description**

The GETPMINFO command is used to query an SX05 equipped XPM.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

**Qualifications and warnings**

The qualifications and warnings are as follows:

- When querying an XPM, the XPM should be SX05 equipped.
- The XIPVER tool must first be bound with the COMIDBIND command before using the GETPMINFO command.

**Syntax**

The GETPMINFO command syntax is as follows:

```
> GETPMINFO <sx05 xpm type DTC or PDTC> <sx05 xpm number 0 to 255>
```

**Example**

The following table provides an example of the GETPMINFO command.

**Command example (Sheet 1 of 3)**

|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| <b>Command:</b>             | > GETPMINFO DTC 13                                                  |
| <b>Description of task:</b> | If a valid XPM is queried, information about that XPM is displayed. |

**getpminfo (xipver)** (continued)

---

**Command example (Sheet 2 of 3)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | 06:49:01.841 GETPMINFO Reply<br><br>Active Address: 47.245.1.20      Inactive Address: 47.245.1.21<br>Unit0 Address : 47.245.1.22      Unit1 Address : 47.245.1.23<br><br><br>Ether Type: 10 BaseT<br>Device Type: PCMCIA Card<br><br><br>Entry 0<br>Destination Address    [0]:0.0.0.0<br>Route Mask            [0]:0.0.0.0<br>Gateway Address       [0]:47.245.1.17<br>Metric                [0]:0<br><br><br>Entry 1<br>Destination Address    [1]:0.0.0.0<br>Route Mask            [1]:0.0.0.0<br>Gateway Address       [1]:47.245.1.19<br>Metric                [1]:0<br><br><br>Active COMIDs:<br>NONE<br><br><b>Command:</b> > GETPMINFO LPP 23<br>> GETPMINFO DTC 100<br>> GETPMINFO A A A<br>> GETPMINFO 123<br><br><b>Description of task:</b> If an invalid XPM type or XPM number is queried, an error message is displayed.<br><br><b>MAP response:</b> Invalid symbol: <XPM Name> {DTC <XPM Number> {0 TO 255},<br>PDTC <XPM Number> {0 TO 255}}<br><br>Enter: <XPM Name> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**getpminfo (xipver)** (continued)**Command example (Sheet 3 of 3)**

|                             |                                                                            |
|-----------------------------|----------------------------------------------------------------------------|
| <b>Command:</b>             | > GETPMINFO DTC 4                                                          |
| <b>Description of task:</b> | If the XIPVER tool is not bound to a COMID, error is displayed.            |
| <b>MAP response:</b>        | 06:47:26.884 GETPMINFO request denied: XIPVER tool is not bound to a COMID |

**Responses**

The following table explains possible responses to the GETPMINFO command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| <b>MAP response:</b> | 06:49:01.841 GETPMINFO Reply                                   |
|                      | Active Address: 47.245.1.20      Inactive Address: 47.245.1.21 |
|                      | Unit0 Address : 47.245.1.22      Unit1 Address : 47.245.1.23   |
|                      | <br>                                                           |
|                      | Ether Type: 10 BaseT                                           |
|                      | Device Type: PCMCIA Card                                       |
|                      | <br>                                                           |
|                      | Entry 0                                                        |
|                      | Destination Address    [0]:0.0.0.0                             |
|                      | Route Mask            [0]:0.0.0.0                              |
|                      | Gateway Address       [0]:47.245.1.17                          |
|                      | Metric                [0]:0                                    |
|                      | <br>                                                           |
|                      | Entry 1                                                        |
|                      | Destination Address    [1]:0.0.0.0                             |
|                      | Route Mask            [1]:0.0.0.0                              |
|                      | Gateway Address       [1]:47.245.1.19                          |
|                      | Metric                [1]:0                                    |
|                      | <br>                                                           |
|                      | Active COMIDs:                                                 |
|                      | NONE                                                           |



## **getpminfo (xipver) (end)**

---

### **MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                 |                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b> | Display of the active, inactive side IP addresses, subnet masks, gateway IP addresses, and metric information for the SX05 equipped XPM. |
| <b>Actions:</b> | If necessary, XPM datafill in table XPMIPMAP can be changed.                                                                             |

help (xipver)

Type

The HELP command is a nonmenu command.

Target

The command target for the HELP command is BRISC.

Description

The HELP command provides information about the XIPVER tool as well as various commands available in the XIPVER tool.

Release history

This section identifies if the command is new or changed, and the applicable software release.

TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

Qualifications and warnings

The qualifications and warnings are as follows:

- The Command must be a valid command in the XIPVER tool.

Syntax

The HELP command syntax is as follows:

> help

Example

The following table provides an example of the HELP command.

Command example (Sheet 1 of 3)

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Command:             | > HELP                                                                                 |
| Description of task: | The HELP command provides the commands available in the tool with a brief description. |

**help (xipver)** (continued)

---

**Command example (Sheet 2 of 3)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | XIPVER:<br>> HELP<br>XPM IP Verification Tool<br><br>Parameter Commands:<br>DIP: Sets the destination address parameter<br>DP: Sets the destination application port number<br>parameter<br>MESSAGE: Sets the outgoing message<br>PACKETSIZE: Sets the size of packet parm for PING command<br>PINGTIMEOUT: Sets the time out parameter for PING command<br>RR: Sets the record route option<br>TIMEOUT: Sets the time out parameter for XIPVER tool<br>commands (except for PING command)<br>TTLIVE: Sets time to live parameter for PING command<br><br>Connection Commands:<br>CLOSE: Closes specified sockets associated with XIPVER<br>tool COMID.<br>COMIDBIND: Binds XIPVER tool session to a Communication<br>ID<br>COMIDUNBIND: Unbinds the COMID from XIPVER tool session<br>CONNECT: Establishes a TCP connection with a remote<br>machine<br>FORCECLOSE: Closes specified sockets associated with a<br>COMID<br>PING: Sends an ICMP Echo Request<br>SEND: Sends a TCP/UDP message to a remote machine<br>TCPSERVER: Sets the XIPVER tool as a TCP serve<br>UDPSOCKET: Sets up a UDP socket |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**help (xipver)** (end)**Command example (Sheet 3 of 3)****MAP response  
(continued):****Debug Commands:**

GETPMINFO: Queries an ethernet based SX05 XPM

QUERYCOMID: Displays information about a COMID  
datafilled in

TRACE: Enables/Disables message tracing

TRACESET: Sets the trace option sets IPCOMID table

**Misc. Commands:**

HELP: Displays available commands.

Q &lt;command&gt; Displays detailed information on &lt;command&gt;.

QUIT: Exits XIPVER tool.

RESET: Resets XIPVER tool parameters

SHOW: Shows all the XIPVER tool parameters

**Responses**

The following table explains possible responses to the HELP command.

**MAP responses with associated meanings and actions****MAP response:** > HELP**Meaning:** Outputs a summary of the XIPVER tool.**Actions:** None

## message (xipver)

---

### Type

The MESSAGE command is a nonmenu command.

### Target

The command target for the MESSAGE command is BRISC.

### Description

The MESSAGE command sets the message that is sent with the SEND command.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- When setting a message, the data should be in hexadecimal format.
- Message should be enclosed in single quotes and each hex byte of message data should be separated by spaces.
- The maximum length of a message can be up to 50 words. For messages bigger than 50 words, a message size must be specified.
- By using the message size optional parameter, the size of the message can be changed from 51 to 600 bytes.
- If the specified data message is smaller than the specified message size, the tool duplicates the last word of the message.

### Syntax

The MESSAGE command syntax is as follows:

```
> message <size in number of bytes: 1 to 250 (optional)> <data
message in hexadecimal format: 0 to 255>
```

**message (xipver)** (continued)

The following table describes the parameters and variables of the MESSAGE command.

**Command parameter and variable descriptions**

| Parameters and variables | Value              | Description                                                                                                                                                                                                                      |
|--------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Size             | 1 to 250           | This is an optional parameter. If no message size is specified, the maximum of 50 words is assumed. For messages bigger than 50 words, a message size should be specified. The message size is specified in the number of words. |
| Data Message             | hexadecimal format | The actual message data in hexadecimal format. If a message size is specified and data message is less than the message specified, the tool duplicates the last word for the rest of message.                                    |

**Example**

The following table provides examples of the MESSAGE command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > MESSAGE                                                                                  |
| <b>Description of task:</b> | If the MESSAGE command is used without any parameter, the current MESSAGE value is output. |
| <b>MAP response:</b>        | MESSAGE: FF FF FF                                                                          |
| <b>Command:</b>             | > MESSAGE F\$ 01<br>> MESSAGE J0 1D<br>> MESSAGE 99999                                     |
| <b>Description of task:</b> | If an incorrect format is used for the parameters the MESSAGE value is not updated.        |
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>MESSAGE: FF FF FF        |
| <b>Command:</b>             | > MESSAGE 00 2D 02 01 07 49 02 9A 00 1C 00 15 16 01 03 01 00                               |
| <b>Description of task:</b> | If MESSAGE command is used with correct parameter, the MESSAGE value is updated.           |
| <b>MAP response:</b>        | MESSAGE: 00 2D 02 01 07 49 02 9A 00 1C 00 15 16 01 03 01 00                                |

[illegible]

The following table explains a possible response to the MESSAGE command.

|                      |                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | MESSAGE: <Data Message>                                                                                                                                                                                                                                                                                                                                                            |
| <b>Meaning:</b>      | Output of the message data.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Actions:</b>      | If the value specified by the command parameter was in a correct format, the MESSAGE parameter is updated with it. If the value specified by the command parameter was in an incorrect format, the MESSAGE parameter is not updated and current MESSAGE value is output. If the desired value is not set for the MESSAGE parameter, the user should re-enter using correct format. |

---

**packetsize (xipver)**

---

**Type**

The PACKETSIZE command is a nonmenu command.

**Target**

The command target for the PACKETSIZE command is BRISC.

**Description**

The PACKETSIZE command sets or displays the packet parameter that is used by the PING command.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

**Qualifications and warnings**

The qualifications and warnings are as follows:

- The packet size is specified in bytes and the valid range is from 8 to 4096 bytes

**Syntax**

The PACKETSIZE command syntax is as follows:

> packetsize <0 to 4096>

**Example**

The following table provides an example of the PACKETSIZE command.

**Command example (Sheet 1 of 2)**

|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| <b>Command:</b>             | > packetsize                                                      |
| <b>Description of task:</b> | If no parameter is entered, the current packet size is displayed. |
| <b>MAP response:</b>        | PACKETSIZ: 10                                                     |
| <b>Command:</b>             | > packetsize 4097                                                 |



**packetsize (xipver) (end)**

---

**Command example (Sheet 2 of 2)**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>Description of task:</b> | If a parameter is entered that is outside the valid range, an error message is displayed. |
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>PACKETSIZE:64           |
| <b>Command:</b>             | > packetsize 28                                                                           |
| <b>Description of task:</b> | If the command is entered correctly, the packet size is updated..                         |
| <b>MAP response:</b>        | PACKETSIZE:28                                                                             |

**Responses**

The following table explains possible responses to the PACKETSIZE command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | PACKETSIZE:28                                                                                               |
| <b>Meaning:</b>      | Either a new value was entered correctly or no parameter was entered in order to request the current value. |
| <b>Actions:</b>      | None..                                                                                                      |

ping (xipver)

Type

The PING command is a nonmenu command.

Target

The command target for the PING command is BRISC.

Description

The PING command sends an ICMP echo request to a remote machine. The DIP, PACKETSIZE, PINGTIMEOUT, TIMER, and RR parameters should be set before using this command. The DIP parameter can be specified instead as a PING parameter

Release history

This section identifies if the command is new or changed, and the applicable software release.

TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

Qualifications and warnings

The qualifications and warnings are as follows:

- The IP address (if used instead of the DIP command) should be four integers in the range 0-255 separated by spaces.
- The IP address of the remote machine must either be specified by the DIP command or the DIP parameter in the PING command

Syntax

The PING command syntax is as follows:

> ping <IP destination ip address (use only if DIP command is not used>

Example

The following table provides an example of the PING command.

Command example (Sheet 1 of 3)

|                      |                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Command:             | > ping ip 47 142 227 8                                                                                                                   |
| Description of task: | If the PING command is entered with the DIP parameter and successful, the response message is displayed along with optional time stamps. |

**ping (xipver)** (continued)

---

**Command example (Sheet 2 of 3)**

|                             |                                                                                                                                                                                                                                |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b>        | DIP: 47.142.227.8<br>10:48:48.727 ICMP Echo Request sent to machine 47.142.227.8<br>10:48:49.168 ICMP Echo Response from machine 47.142.227.8                                                                                  |
| <b>Command:</b>             | > dip 47.142.226.106<br>DIP: 47.142.226.106<br><br>> ping                                                                                                                                                                      |
| <b>Description of task:</b> | If the DIP and PING (without DIP parameter) commands are successful, the response message is displayed along with optional time stamps.                                                                                        |
| <b>MAP response:</b>        | DIP: 47.142.226.106<br>10:45:09.104 ICMP Echo Request sent to machine 47.142.226.106<br>10:45:09.440 ICMP Echo Response from machine 47.142.226.106                                                                            |
| <b>Command:</b>             | rr yes<br>RR: YES<br><br>ping ip 47 245 0 1                                                                                                                                                                                    |
| <b>Description of task:</b> | Some routers in a path may not allow the record route option, in whichcase the PING command times out at the XPM. This is not a bug.                                                                                           |
| <b>MAP response:</b>        | DIP: 47.245.0.1<br>10:50:46.399 ICMP Echo Request sent to machine 47.245.0.1<br>10:50:46.791 ICMP Echo Response from machine 47.245.0.1<br>ROUTE:<br>47.245.0.21<br>47.245.0.1<br>47.245.0.1<br>47.245.1.19<br>Elapsed Time: 0 |
| <b>Command:</b>             | > ping (ip 47.129.13.45)                                                                                                                                                                                                       |
| <b>Description of task:</b> | If the timer expires, the control is given back to the user with the failure displayed.                                                                                                                                        |
| <b>MAP response:</b>        | 10:44:18.860 ICMP Echo Request sent to machine 47.129.13.45<br><br>Timer 3 seconds expired.                                                                                                                                    |

**ping (xipver) (end)****Command example (Sheet 3 of 3)**

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| <b>Command:</b>             | > ping                                                                    |
| <b>Description of task:</b> | If the PING command is unsuccessful, the reason for failure is displayed. |
| <b>MAP response:</b>        | Pinged 176.24.68.102:9092 10:44:05.409<br>Ping failed: <Reason>           |

**Responses**

The following table explains possible responses to the PING command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <Time> ICMP Echo Request sent to machine <Remote IP Address>                                                                                                                                                 |
| <b>Meaning:</b>      | An Echo Request message is sent and now the tool is waiting for a response.                                                                                                                                  |
| <b>Actions:</b>      | The system waits for an Echo Reply message. When a response is received, it is displayed to the user                                                                                                         |
| <b>MAP response:</b> | <Time> ICMP Echo Response received from machine <Remote IP Address><br><br>Route: <Route IP Addresses><br>Elapsed Time: <Time in milliseconds>                                                               |
| <b>Meaning:</b>      | The ping was successful as the remote machine has responded to the ping. If the time stamp option was set to yes, a list of IP Addresses of all of the intermediate nodes and time stamps is also displayed. |
| <b>Actions:</b>      | None                                                                                                                                                                                                         |
| <b>MAP response:</b> | Ping failed: <Reason>                                                                                                                                                                                        |
| <b>Meaning:</b>      | If the PING command is successful, the response message is displayed along with optional time stamps.                                                                                                        |
| <b>Actions:</b>      | Try to fix the source of the failure.                                                                                                                                                                        |

## pingtimeout (xipver)

---

### Type

The PINGTIMEOUT command is a nonmenu command.

### Target

The command target for the PINGTIMEOUT command is BRISC.

### Description

The PINGTIMEOUT command sets or displays the ping time out parameter used by the PING command. The PINGTIMEOUT indicates how long the PING utility waits for a response before indicating a no response error message.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- The time is specified in seconds and the valid range is from 1 to 10 seconds.

### Syntax

The PINGTIMEOUT command syntax is as follows:

```
> pingtimeout <1 to 5>
```

### Example

The following table provides an example of the PINGTIMEOUT command.

#### Command example (Sheet 1 of 2)

|                             |                                                             |
|-----------------------------|-------------------------------------------------------------|
| <b>Command:</b>             | > pingtimeout                                               |
| <b>Description of task:</b> | If no parameter is entered, the current value is displayed. |
| <b>MAP response:</b>        | PINGTIMEOUT:6                                               |
| <b>Command:</b>             | > pingtimeout 11                                            |

---

**pingtimeout (xipver) (end)**

---

**Command example (Sheet 2 of 2)**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>Description of task:</b> | If a parameter is entered that is outside the valid range, an error message is displayed. |
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>PINGTIMEOUT:6           |
| <b>Command:</b>             | > pingtimeout 7                                                                           |
| <b>Description of task:</b> | If the command is entered correctly, the value is updated..                               |
| <b>MAP response:</b>        | PINGTIMEOUT:7                                                                             |

**Responses**

The following table explains possible responses to the PINGTIMEOUT command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | PINGTIMEOUT:7                                                                                               |
| <b>Meaning:</b>      | Either a new value was entered correctly or no parameter was entered in order to request the current value. |
| <b>Actions:</b>      | None.                                                                                                       |

## q (xipver)

---

### Type

The Q command is a nonmenu command.

### Target

The command target for the Q command is BRISC.

### Description

The Q command provides a detailed summary about a specified command.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- none

### Syntax

The Q command syntax is as follows:

> q <command>

### Example

The following table provides an example of the Q command.

#### Command example (Sheet 1 of 2)

|                             |                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | >Q querycomid                                                                                             |
| <b>Description of task:</b> | Display a description of the QUERYCOMID command.                                                          |
| <b>MAP response:</b>        | Query a particular COMID<br>- The COMID must be datafilled in IPCOMID table<br>Parms: <COMID> {0 TO 1023} |
| <b>Command:</b>             | > Q abcd                                                                                                  |

---

**q (xipver)** (end)

---

**Command example (Sheet 2 of 2)**

|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| <b>Description of task:</b> | If a non-valid command is entered, an error message is displayed. |
| <b>MAP response:</b>        | NO COMMAND IN LINE                                                |

**Responses**

The following table explains possible responses to the Q command.

**MAP responses with associated meanings and actions**

|                      |                                                  |
|----------------------|--------------------------------------------------|
| <b>MAP response:</b> | <description of command>                         |
| <b>Meaning:</b>      | Display information about the indicated command. |
| <b>Actions:</b>      | None                                             |



## querycomid (xipver)

---

### Type

The QUERYCOMID command is a nonmenu command.

### Target

The command target for the QUERYCOMID command is BRISC.

### Description

The QUERYCOMID command provides information about a particular COMID. This command only accepts COMIDs datafilled in table IPSVCS.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- The COMID must first be datafilled in table IPCOMID.
- The valid range of COMIDs is from 0 to 1023.

### Syntax

The QUERYCOMID command syntax is as follows:

```
> querycomid (comid in range 0-1023>
```

### Example

The following table provides an example of the QUERYCOMID command.

#### Command example (Sheet 1 of 3)

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>Command:</b>             | >QUERYCOMID 80                                                                            |
| <b>Description of task:</b> | If a COMID that is datafilled in table IPSVCS is queried, COMID information is displayed. |

**querycomid (xipver)** (continued)**Command example (Sheet 2 of 3)**

|                             |                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b>        | COMID Status :ACTIVE<br>Socket Port Type :TCP<br>Local Socket ID :495<br>Local Socket State :LISTENING<br>Local IP Address :47.245.1.20<br>Local Port :11111 |
| <b>Command:</b>             | > QUERYCOMID 100                                                                                                                                             |
| <b>Description of task:</b> | If a port number not datafilled in IPSVCS is specified, an error is displayed.                                                                               |
| <b>MAP response:</b>        | COMID not found.                                                                                                                                             |
| <b>Command:</b>             | > QUERYCOMID ABCD                                                                                                                                            |
| <b>Description of task:</b> | If an invalid port number is specified, an error nessage is displayed.                                                                                       |
| <b>MAP response:</b>        | Wrong type: <COMID> {0 TO 1023}<br>Enter: <COMID>.                                                                                                           |
| <b>Command:</b>             | > QUERYCOMID 20                                                                                                                                              |
| <b>Description of task:</b> | If a specified COMID is not present in table IPCOMID or is not bound by command COMIDBIND, an error nessage is displayed.                                    |
| <b>MAP response:</b>        | 06:49:56.076 QUERYCOMID request denied: XIPVER tool is in not bound to a COMID                                                                               |
| <b>Command:</b>             | (see commands and MAP responses below)                                                                                                                       |

**querycomid (xipver)** (continued)

---

**Command example (Sheet 3 of 3)**

**Description of task:** The QUERYCOMID command must be entered two times to see the auto accept messages for a TCP server.

**Commands and  
MAP responses:**

>comidbind 100

COMID: 100

>tcpserver

12:54:21.310 TCP server created

>querycomid 100

COMID Status :ACTIVE

Socket Port Type :TCP

Local Socket ID :494

Local Socket State :LISTENING

Local IP Address :47.245.1.20

Local Port :8888

12:55:59.304 Connection made with 47.245.1.20:8888 thru 493 socket

>querycomid 100

COMID Status :ACTIVE

Socket Port Type :TCP

Local Socket ID :494

Local Socket State :LISTENING

Local IP Address :47.245.1.20

Local Port :8888

Connected Socket ID [0]:493

Connected Socket State [0]:ESTABLISHED

Remote IP Address [0]:47.142.226.106

Remote Port [0]:14000

---

**querycomid (xipver) (end)**

---

## Responses

The following table explains possible responses to the QUERYCOMID command.

### MAP responses with associated meanings and actions

|                      |                                                                                                                |                             |
|----------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>MAP response:</b> | COMID Status                                                                                                   | : <Status>                  |
|                      | Socket Port Type                                                                                               | : <Socket Type>             |
|                      | Local Socket ID                                                                                                | : <Socket Number>           |
|                      | Local Socket State                                                                                             | : <Current state of socket> |
|                      | Local IP Address                                                                                               | : <IP Address>              |
|                      | Local Port                                                                                                     | : <Port Number>             |
|                      | <b>Note:</b> For UDP applications, socket state, remote IP address, and remote port numbers are not displayed. |                             |
| <b>Meaning:</b>      | Display information associated with the COMID.                                                                 |                             |
| <b>Actions:</b>      | None                                                                                                           |                             |

## quit (xipver)

---

### Type

The QUIT command is a nonmenu command.

### Target

The command target for the QUIT command is BRISC.

### Description

The QUIT command exits out of the XIPVER tool. This command closes all sockets and connections associated with the XIPVER tool before exiting. Also, all of the changes to private parameters are lost upon exiting.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- This command exits the XIPVER tool. All of the changes to private parameters are lost when the tool is exited.

### Syntax

The QUIT command syntax is as follows:

```
> quit <nlevels or increment name or ALL>
```

### Example

The following table provides an example of the QUIT command.

#### Command example (Sheet 1 of 2)

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| <b>Command:</b>             | > quit                                                                    |
| <b>Description of task:</b> | If QUIT command is used without any parameter, the XIPVER tool is exited. |
| <b>MAP response:</b>        | Bye Bye<br>CI:                                                            |
| <b>Command:</b>             | > QUIT abcd                                                               |

---

**quit (xipver)** (end)

---

**Command example (Sheet 2 of 2)**

|                             |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| <b>Description of task:</b> | If an incorrect format is used for the parameter, an error message is given. |
| <b>MAP response:</b>        | QUIT -- Increment not found<br>Last parameter evaluated was: 1               |

**Responses**

The following table explains possible responses to the QUIT command.

**MAP responses with associated meanings and actions**

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| <b>MAP response:</b> | Bye Bye<br>CI:                                                       |
| <b>Meaning:</b>      | Exit the XIPVER tool.                                                |
| <b>Actions:</b>      | If the command was in the correct format, the XIPVER tool is exited. |

## reset (xipver)

---

### Type

The RESET command is a nonmenu command.

### Target

The command target for the RESET command is BRISC.

### Description

The RESET command resets all the XIPVER tool parameters back to default values. This command does not reset the COMID or trace option sets. Once a COMID is assigned to a session of XIPVER tool, it can not be reset.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- This command does not reset the COMID parameter. Once a COMID is assigned to an XIPVER session, it can not be reset.
- The reset command does not change the values of trace option sets which are shared parameters.

### Syntax

The RESET command syntax is as follows:

```
> reset
```

### Example

The following table provides an example of the RESET command.

#### Command example (Sheet 1 of 2)

|                 |         |
|-----------------|---------|
| <b>Command:</b> | > RESET |
|-----------------|---------|

---

**reset (xipver) (end)**

---

**Command example (Sheet 2 of 2)**

|                             |                                                                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description of task:</b> | If the RESET command is used, the XIPVER tool resets all the parameters back to their default values.                                                  |
| <b>MAP response:</b>        | DIP : NIL<br>DP : NIL<br>MDIP : NIL<br>DP : NIL<br>PACKETSIZE : 64<br>PINGTIMEOUT : 1<br>TIMEOUT : 3<br>RR : NO<br>TTLIVE : 4<br>MESSAGE :<br>FF FF FF |

**Responses**

The following table explains possible responses to the RESET command.

**MAP responses with associated meanings and actions**

|                      |                                                  |
|----------------------|--------------------------------------------------|
| <b>MAP response:</b> | <Parameter Name>: <Parameter Value>              |
| <b>Meaning:</b>      | Displays all the changed XIPVER tool parameters. |
| <b>Actions:</b>      | None                                             |



## rr (xipver)

---

### Type

The RR command is a nonmenu command.

### Target

The command target for the RR command is BRISC.

### Description

The RR command sets the Record route parameter that is sent with the PING command.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

None

### Syntax

The RR command syntax is as follows:

> rr (display current RR value)

> rr <yes,y,no, or n> (set RR value)

If the parameter is Yes or Y, the IP route is requested with the PING command.  
If the parameter is No or N, the IP route is not requested with the PING command.

### Example

The following table provides an example of the RR command.

#### Command example (Sheet 1 of 2)

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>Command:</b>             | > RR                                                                             |
| <b>Description of task:</b> | If the RR command is used without any parameter, the current RR value is output. |
| <b>MAP response:</b>        | RR: No                                                                           |

**rr (xipver) (end)****Command example (Sheet 2 of 2)**

|                             |                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------|
| <b>Command:</b>             | > RR FFAB01<br>> RR YES NO<br>> RR Y<br>> RR 1                                  |
| <b>Description of task:</b> | If an incorrect format is used for the parameters, the RR value is not updated. |
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>RR: No        |
| <b>Command:</b>             | > RR YES                                                                        |
| <b>Description of task:</b> | If the RR command is used with the correct parameter, the RR value is updated.  |
| <b>MAP response:</b>        | RR: Yes                                                                         |

**Responses**

The following table explains possible responses to the RR command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | RR: <Yes/No>                                                                                                                                                                                                                                                                                                                                           |
| <b>Meaning:</b>      | Display the value of Request Route parameter                                                                                                                                                                                                                                                                                                           |
| <b>Actions:</b>      | If the value specified by the command parameter was in a correct format, the RR parameter is updated with it. If the value specified by the command parameter was in an incorrect format, the RR parameter is not updated and the current RR value is output. If the desired value is not set for the RR parameter, re-enter using the correct format. |

## send (xipver)

---

### Type

The SEND command is a nonmenu command.

### Target

The command target for the SEND command is BRISC.

### Description

The SEND command sends a message to a remote machine using a TCP or UDP protocol. The DIP, DP, and MESSAGE commands should be used to set the Destination IP Address, Port and Data message before using this command. For a TCP Send, the connection also needs to be established using the CONNECT command before using the SEND command.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- The CONNECT command must be used before sending a message using TCP.
- The UDPSOCKET command should be used before sending a message using UDP.
- If the XIPVER tool is set up as a TCP server, this command requires the socket id parameter to specify the socket that carries the message. This socket number is obtained from one of the messages received from the remote machine. This number can also be obtained from the QUERYCOMID command.
- The XIPVER tool must be set as a TCP client, TCP server, or UDP socket before using this command. Refer to the example section for these commands.

### Syntax

The SEND command syntax is as follows:

```
> send <socket number: -1 to 32767>
```

---

**send (xipver)** (continued)

---

## Examples

The following table provides examples of the SEND command.

### Command examples

|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > SEND TCP                                                                                                                       |
| <b>Description of task:</b> | If a SEND TCP command is issued and the XIPVER tool is not connected to a remote machine, the request is denied                  |
| <b>MAP response:</b>        | SEND TCP Denied. Not connected to remote machine.                                                                                |
| <b>Command:</b>             | > SEND UDP                                                                                                                       |
| <b>Description of task:</b> | If a UDP SEND command is successful, the message sent is displayed.                                                              |
| <b>MAP response:</b>        | 10:48:14.332 Message sent to remote machine 190.3.2.88:8181<br>79 02 11 00 2D 03 01 07 49 02 A0 00 02 00 15 14 02 02 01<br>04 00 |
| <b>Command:</b>             | > SEND TCP                                                                                                                       |
| <b>Description of task:</b> | If a TCP SEND command is successful, the message sent is displayed.                                                              |
| <b>MAP response:</b>        | 10:48:14.332 Message sent to remote machine 190.3.2.88:8181<br>79 02 11 00 2D 03 01 07 49 02 A0 00 02 00 15 14 02 02 01<br>04 00 |
| <b>Command:</b>             | > SEND TCP 600                                                                                                                   |
| <b>Description of task:</b> | If the XIPVER tool is setup as a TCP server the SEND TCP command needs an additional parameter, socket number.                   |
| <b>MAP response:</b>        | 10:44:35.510 Message sent to 210.90.56.11:9000<br>through socket 600<br>D2 A0 00 02 00 15 1C 01 04 0F                            |

**send (xipver)** (continued)

---

**Complete process examples**

The following table provides examples for the whole process of sending messages. As mentioned above, the XIPVER tool must first be set up as a TCP client, TCP server, or UDP socket.

**Command examples (Sheet 1 of 4)**

|                                    |                                                                                                                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description of task:</b>        | Set up a UDP socket.                                                                                                                                                                  |
| <b>Commands and MAP responses:</b> | >comidbind 100<br>COMID: 100<br>>udpsocket<br>14:19:36.003 UDP socket created                                                                                                         |
| <b>Description of task:</b>        | Set up a TCP server                                                                                                                                                                   |
| <b>Commands and MAP responses:</b> | >comidbind 100<br>COMID: 100<br>>tcpserver<br>14:21:09.327 TCP server created                                                                                                         |
| <b>Description of task:</b>        | Set up a TCP client                                                                                                                                                                   |
| <b>Commands and MAP responses:</b> | >comidbind 100<br>COMID: 100<br>>dip 47 142 226 106<br>DIP: 47.142.226.106<br>>dp 14000<br>DP:14000<br>>connect<br>10:40:39.148 TCP Client created: Connected to 47.142.226.106:14000 |
| <b>Description of task:</b>        | Send message when set up as a TCP server                                                                                                                                              |

---

**send (xipver)** (continued)

---

**Command examples (Sheet 2 of 4)****Commands and  
MAP responses:**

```
>tcpserver
15:10:17.061 TCP server created

>querycomid 100
COMID Status :ACTIVE
Socket Port Type :TCP
Local Socket ID :495
Local Socket State :LISTENING
Local IP Address :47.245.1.20
Local Port :11111

15:11:03.280 Connection made with 47.142.226.106:14000 thru 494 socket

>message 10 #43 22 12 #45 19 #43
 43 16 0C 45 13 43 FF FF FF FF

>send 494
15:12:06.294 Message of size 10 sent thru socket 494
 43 16 0C 45 13 43 FF FF FF FF
```

**Description of task:** Send message when set up as a UDP socket

**send (xipver)** (continued)

---

**Command examples (Sheet 3 of 4)**

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Commands and<br/>MAP responses:</b> | <pre>&gt;comidbind 100 COMID: 100  &gt;udpsocket 13:06:58.899 UDP socket created  &gt;dip 47 142 226 106 DIP: 47.142.226.106  &gt;dp 10000 DP:10000  &gt;message 60 #34 #76 #84 23 190 #76  34 76 84 17 BE 76 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  &gt;send 13:08:13.756 Message of size 60 sent to 47.142.226.106:10000  34 76 84 17 BE 76 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF</pre> |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**send (xipver)** (continued)**Command examples (Sheet 4 of 4)**

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description of task:</b>        | Send message when set up as a TCP client                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Commands and MAP responses:</b> | <pre> &gt;dip DIP: 47.142.226.106  &gt;dp 14111 DP:14111  &gt;connect 13:17:36.811 TCP Client created: Connected to 47.142.226.106:14111  &gt;message 120 #43 54 65 67 87   43 36 41 43 57 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF   FF FF FF    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF   FF FF FF    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF   FF FF FF    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF   FF FF FF    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF </pre> |
|                                    | <pre> &gt;send 13:17:54.756 Message of size 120 sent to 47.142.226.106:14111   43 36 41 43 57 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF   FF FF FF    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF   FF FF FF    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF   FF FF FF    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF   FF FF FF    FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF </pre>                                                                                              |



**send (xipver) (end)**

---

**Responses**

The following table explains possible responses to the SEND command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | SEND TCP denied. Not connected to remote machine.                                                                                                                                                                |
| <b>Meaning:</b>      | This response is only produced if the user requests to send a TCP message.                                                                                                                                       |
| <b>Actions:</b>      | Make a connection using the CONNECT command and then try to send the message again.                                                                                                                              |
| <b>MAP response:</b> | Send failed: <Reason>                                                                                                                                                                                            |
| <b>Meaning:</b>      | The message sent was not successfully transmitted. A send request can fail due to many reasons. For a list of various reasons of failure, please refer to the TOPS IP User's Guide.                              |
| <b>Actions:</b>      | Try to fix the source of failure.                                                                                                                                                                                |
| <b>MAP response:</b> | <Time> Message sent to remote machine <IP Address>:<Port> <Hex Numbers>                                                                                                                                          |
| <b>Meaning:</b>      | If any message is successfully sent to a remote machine, that message is displayed in hexadecimal numbers along with the IP address and port number of the remote application and the time the message was sent. |
| <b>Actions:</b>      | For TCP messages, the system waits for a response from the remote application until the specified timer expires. No action is required.                                                                          |

---

**show (xipver)**

---

**Type**

The SHOW command is a nonmenu command.

**Target**

The command target for the SHOW command is BRISC.

**Description**

The SHOW command displays the current value of all the XIPVER tool parameters.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

**Qualifications and warnings**

None

**Syntax**

The SHOW command syntax is as follows:

> show

**Example**

The following table provides an example of the SHOW command.

**Command example (Sheet 1 of 2)**

|                 |        |
|-----------------|--------|
| <b>Command:</b> | > SHOW |
|-----------------|--------|

**show (xipver) (end)**

---

**Command example (Sheet 2 of 2)**

|                             |                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description of task:</b> | If the SHOW command is used, all of the XIPVER parameters are displayed.                                                                            |
| <b>MAP response:</b>        | DIP : NIL<br>DP : NIL<br>PACKETSIZE : 64<br>PINGTIMEOUT : 8<br>TIMEOUT : 12<br>RR : YES<br>TTLIVE : 3<br>MESSAGE :<br>43 15 29 23 20 15 0A A1 0C DE |

**Responses**

The following table explains possible responses to the SHOW command.

**MAP responses with associated meanings and actions**

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| <b>MAP response:</b> | <Parameter Name>: <Parameter Value>                          |
| <b>Meaning:</b>      | Display the current values of all the XIPVER tool parameters |
| <b>Actions:</b>      | None                                                         |

---

## showusers (xipver)

---

### Type

The SHOWUSERS command is a nonmenu command.

### Target

The command target for the SHOWUSERS command is BRISC.

### Description

The SHOWUSERS command displays information about the current XIPVER users.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature 59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

None

### Syntax

The SHOWUSERS command syntax is as follows:

```
> showusers
```

### Example

The following table provides an example of the SHOWUSERS command.

#### Command example (Sheet 1 of 2)

|                             |                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > SHOWUSERS                                                                                |
| <b>Description of task:</b> | If the SHOWUSERS command is used, information about the current XIPVER users is displayed. |

[illegible]

|                      |                                                      |
|----------------------|------------------------------------------------------|
| <b>MAP response:</b> | <Parameter Name>: <Parameter Value>                  |
| <b>Meaning:</b>      | Display the current information of the XIPVER users. |
| <b>Actions:</b>      | None                                                 |

**tcpserver (xipver)**

---

**Type**

The TCPSERVER command is a nonmenu command.

**Target**

The command target for the TCPSERVER command is BRISC.

**Description**

The TCPSERVER command sets up the XIPVER tool as a TCP server. This command does not use the destination IP address and destination port parameters. In order to create a TCP server, the XIPVER tool should not have any prior TCP connection nor be currently setup as a TCP server or UDP socket. All old connections need to be disconnected using the CLOSE command before using this command. The TCP server in XIPVER tool automatically accepts all connection requests

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

**Qualifications and warnings**

The qualifications and warnings are as follows:

- The XIPVER tool should not be currently connected, used as a TCP server, TCP client, nor UDP socket before this command. All prior connections should be dropped before creating a server using this command.

**Syntax**

The TCPSERVER command syntax is as follows:

```
> tcpserver
```

**tcpserver (xipver)** (continued)

---

**Example**

The following table provides an example of the TCPSERVER command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > TCPSERVER                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description of task:</b> | If the XIPVER tool is already connected to a remote machine, the request for server creation is denied.                                                                                                                                                                                                                                                                                                                  |
| <b>MAP response:</b>        | Server Request Denied. Already connected to 132.12.43.65:120                                                                                                                                                                                                                                                                                                                                                             |
| <b>Command:</b>             | > TCPSERVER                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description of task:</b> | If a TCP server is already set up, the request for server creation is denied.                                                                                                                                                                                                                                                                                                                                            |
| <b>MAP response:</b>        | Server Request Denied. Already listening as TCP server<br>48.124.123.41:12435                                                                                                                                                                                                                                                                                                                                            |
| <b>Command:</b>             | > TCPSERVER                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description of task:</b> | If a UDP socket is already set up, the request for server creation is denied.                                                                                                                                                                                                                                                                                                                                            |
| <b>MAP response:</b>        | Server Request Denied. Already set up as a UDP socket<br>48.124.123.41:12435                                                                                                                                                                                                                                                                                                                                             |
| <b>Command:</b>             | > TCPSERVER                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description of task:</b> | If a server is created, the server waits for incoming messages. When the server receives a message, it displays the IP address and Port number of the sender along with the socket number and hex message.                                                                                                                                                                                                               |
| <b>MAP response:</b>        | 190.24.32.213:1340 TCP server created<br><br>><br><br>10:44:15.501 Message received from a client application 190.3.2.88:8181 through socket 600<br><br>79 02 11 00 2D 03 01 07 49 02 A0 00 02 00 15 14 02 02 01 04 00<br><br>><br><br>10:44:18.860 Message received from a client application 210.90.56.11:9000 through socket 300<br><br>00 2D 01 02 07 49 02 A0 00 02 00 15 1C 01 04 01 00 00 FF 1C 01 04 01 01 00 FF |
| <b>Command:</b>             | > TCPSERVER                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description of task:</b> | If a remote machine requests a connection, the XIPVER tool establishes connection and information is displayed.                                                                                                                                                                                                                                                                                                          |

**tcpserver (xipver)** (continued)**Command example (Sheet 2 of 2)**

|                             |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| <b>MAP response:</b>        | Connection established with 210.90.56.11:9000 through socket 300 |
| <b>Command:</b>             | > TCPSERVER                                                      |
| <b>Description of task:</b> | If a server request fails, the reason for failure is displayed.  |
| <b>MAP response:</b>        | TCP server request failed:<Reason>                               |

**Responses**

The following table explains possible responses to the TCPSERVER command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <Source IP Address>:<Source Port> TCP server created                                                                                                             |
| <b>Meaning:</b>      | The server has been created and it is listening for any incoming data.                                                                                           |
| <b>Actions:</b>      | The system waits for any incoming messages from a remote client. When a message is received from a client, the message is displayed. No user action is required. |
| <b>MAP response:</b> | Server Request Denied. Already connected to <IP Address>:<Port>                                                                                                  |
| <b>Meaning:</b>      | The server cannot be created because the XIPVER tool is already connected to a destination machine.                                                              |
| <b>Actions:</b>      | Either close the current connection by using the CLOSE command or open XIPVER in another MAP session to connect.                                                 |
| <b>MAP response:</b> | Server Request Denied. Already listening as TCP server <Source IP Address>:<Source Port>                                                                         |
| <b>Meaning:</b>      | The server can not be created because the XIPVER tool is already set up as a server.                                                                             |
| <b>Actions:</b>      | Either close the current server by using the CLOSE command or open XIPVER in another MAP session to connect.                                                     |
| <b>MAP response:</b> | Server Request Denied. Already set up as a UDP socket <Source IP Address>:<Source Port>                                                                          |
| <b>Meaning:</b>      | The server can not be created because the XIPVER tool is already set up as a UDP socket.                                                                         |
| <b>Actions:</b>      | Either close the current UDP socket by using the CLOSE command or open XIPVER in another MAP session to create a TCP server.                                     |



**tcpserver (xipver) (end)**

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <Time> Message received from a client application <Client IP Address>:<Client Port> through socket <Socket Number><Message in Hex Numbers>                                                                        |
| <b>Meaning:</b>      | If any message is received from a client application, that message is displayed in hexadecimal numbers along with the IP address and port number of the client application and the time the message was received. |
| <b>Actions:</b>      | None                                                                                                                                                                                                              |
| <b>MAP response:</b> | Connection established with <IP address>:<Port number> through socket <Socket number>                                                                                                                             |
| <b>Meaning:</b>      | A connection is made with a remote machine.                                                                                                                                                                       |
| <b>Actions:</b>      | None                                                                                                                                                                                                              |
| <b>MAP response:</b> | TCP server request failed: <Reason>                                                                                                                                                                               |
| <b>Meaning:</b>      | The server request failed. A server request can fail due to <reason>.                                                                                                                                             |
| <b>Actions:</b>      | Try to fix the source of the failure                                                                                                                                                                              |

---

**timeout (xipver)**

---

**Type**

The TIMEOUT command is a nonmenu command.

**Target**

The command target for the TIMEOUT command is BRISC.

**Description**

The TIMEOUT command sets the TIMEOUT parameter that is used when a response is expected in the SEND TCP command. If this timer expires, control of the XIPVER tool is given back to the user. By default, the value of this parameter is set to 15 seconds.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

**Qualifications and warnings**

The qualifications and warnings are as follows:

- The time is specified in seconds and the valid range is 1 to 15 seconds.

**Syntax**

The TIMEOUT command syntax is as follows:

```
> timeout <time in 1 to 15 seconds>
```

**Example**

The following table provides an example of the TIMEOUT command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > TIMEOUT                                                                                    |
| <b>Description of task:</b> | If the TIMEOUT command is used without any parameter, the current TIMEOUT value is displayed |
| <b>MAP response:</b>        | TIMEOUT: 15                                                                                  |

**timeout (xipver) (end)**

---

**Command example (Sheet 2 of 2)**

|                             |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| <b>Command:</b>             | > TIMEOUT FFAB01<br>> TIMEOUT 12YES                                                    |
| <b>Description of task:</b> | If an incorrect format is used for the parameter, the TIMEOUT value is not updated     |
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>TIMEOUT: 60          |
| <b>Command:</b>             | > TIMEOUT 3                                                                            |
| <b>Description of task:</b> | If the TIMEOUT command is used with a correct parameter, the TIMEOUT value is updated. |
| <b>MAP response:</b>        | TIMEOUT: 3                                                                             |

**Responses**

The following table explains possible responses to the TIMEOUT command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Timeout: <Time>                                                                                                                                                                                                                                                                                                                                                    |
| <b>Meaning:</b>      | Display the value of the Timeout parameter.                                                                                                                                                                                                                                                                                                                        |
| <b>Actions:</b>      | If the value specified by the command parameter was in a correct format, the Timer parameter is updated with it. If the value specified by the command parameter was in an incorrect format, the Timer parameter is not updated and the current Timer value is output. If the desired value is not set for the Timer parameter, re-enter using the correct format. |

---

**trace (xipver)**

---

**Type**

The TRACE command is a nonmenu command.

**Target**

The command target for the TRACE command is BRISC.

**Description**

The TRACE command enables or disables a trace set option. Also, the TRACE command can display all trace sets and XIPDC890 and XIPDC891 logs generated by incoming and outgoing messages. For more information, refer to the TOPS IP User's Guide.

**Release history**

This section identifies if the command is new or changed, and the applicable software release.

**TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

**Qualifications and warnings**

The qualifications and warnings are as follows:

- A trace option set should be non-NIL before it can be enabled.
- Activation of the trace option set allows the logs to be generated. In order to view the logs, LOGUTIL should be used
- The XIPDC890 log is generated for an incoming message.  
The XIPDC891 log is generated for an outgoing message.  
The XIPDC892 log is generated for an incoming packet.  
The XIPDC893 log is generated for an outgoing packet.

**Syntax**

The TRACE command syntax is as follows:

```
> TRACE <ENABLE or DISABLE> <set number in range 0-9 or ALL>
> TRACE INFO
```

Parameter value ALL selects all set numbers (0-9).

**trace (xipver)** (continued)

---

**Example**

The following table provides an example of the TRACE command.

**Command example (Sheet 1 of 4)**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > TRACE 1 activate<br>> TRACE 100 enable<br>> TRACE 2 close<br>> TRACE 100                                                                                                                                                                                                                                                                                                                                                |
| <b>Description of task:</b> | If an incorrect format is used for the parameters, the required syntax is displayed.                                                                                                                                                                                                                                                                                                                                      |
| <b>MAP response:</b>        | Invalid symbol: <Activation> {ENABLE <Option> {ALL,<br>SET <SetNo> {0 TO 9}},<br><br>DISABLE <Option> {ALL,<br>SET <SetNo> {0 TO 9}},<br><br>INFO}<br><br>Enter: <Activation>                                                                                                                                                                                                                                             |
| <b>Command:</b>             | > TRACE INFO                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description of task:</b> | Display all trace sets                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MAP response:</b>        | TRACESET 0: MESSAGES ALL DIRECTION INCOMING <ENABLED<br>TRACESET 1: MESSAGES COMID 100 DIRECTION OUTGOING<br><DISABLED<br><br>TRACESET 2: MESSAGES XPM DTC 5 DIRECTION BOTH <DISABLED<br>TRACESET 3: MESSAGES IP 47.142.226.106 DIRECTION INCOMING<br><DISABLED<br><br>TRACESET 4: PACKETS ALL DIRECTION INCOMING <ENABLED<br>TRACESET 5: NIL<br>TRACESET 6: NIL<br>TRACESET 7: NIL<br>TRACESET 8: NIL<br>TRACESET 9: NIL |
| <b>Command:</b>             | > TRACE ENABLE SET 1<br>> LOGUTIL<br><br>> START                                                                                                                                                                                                                                                                                                                                                                          |

---

**trace (xipver)** (continued)

---

**Command example (Sheet 2 of 4)**

|                             |                                                                                                                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description of task:</b> | If the TRACE command is used with the correct parameters, XIPDC890 and XIPDC891 logs generated by incoming and/or outgoing messages can be displayed with LOGUTIL. Also, XIPDC892 and XIPDC831 logs generated by incoming and/or outgoing packets can be displayed. |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**trace (xipver)** (continued)

---

**Command example (Sheet 3 of 4)**

```
MAP response: > logutil
 Current MODE setting is: EXTENDED

 LOGUTIL:
 > stop
 Device "TELNSVR00014" not found
 > delrep TELNSVR00014 tops trk ccs audt line ddm oap oain itn c7up teln
 613 report(s) Deleted
 > delrep TELNSVR00014 nop ro tcci mpc ext amab ipgw encp mtcb dirp dch
 tupc
 105 report(s) Deleted
 > start
 You can still use this terminal for entering CI commands.
 To get rid of the CI prompt, type "while (true) (sleep 100 mins)".
 To get back the CI prompt use "<breakSTOP".
URTPF13AT CM XIP890 NOV17 14:19:36 0201 INFO Trace Outgoing
Message
 SERVICE : XIPVER1 COMID : 100
 PERIPHERAL : DTC 4 MSGID : 1
 SRC IP : SRC PORT # :
 DST IP : DST PORT # :
 OP CODE : 10000000 00000101
 MESSAGE DATA:
 00 30 00 22 00 22 00 00 00 01 00 64 00 00 5F 36 5E 36 80 05
00 01 00 00 2B 67 FF FF FF FF 00 00 00 00

URTPF13AT CM XIP893 NOV17 14:19:36 0302 INFO Trace Incoming
Packet
 MSGID: 1
 PACKET DATA:
 00 30 00 1A 00 1A 00 00 00 01 00 64 00 01 5F 36 5E 36 40 05
00 00 2B 67 00 F6
```

**trace (xipver) (end)****Command example (Sheet 4 of 4)**

|                                      |                                                                          |
|--------------------------------------|--------------------------------------------------------------------------|
| <b>MAP response<br/>(continued):</b> | URTPF13AT CM      XIP891 NOV17 14:19:36 0403 INFO Trace Incoming Message |
|                                      | SERVICE : XIPVER1    COMID : 100                                         |
|                                      | PERIPHERAL : DTC 4    MSGID : 1                                          |
|                                      | SRC IP :      SRC PORT # :                                               |
|                                      | DST IP :      DST PORT # :                                               |
|                                      | OP CODE : 01000000 00000101                                              |
|                                      | MESSAGE DATA :                                                           |
|                                      | 00 30 00 1A 00 1A 00 00 00 01 00 64 00 01 5F      36 5E 36 40 05         |
|                                      | 00 00 2B 67 00 F6                                                        |

**Responses**

The following table explains possible responses to the TRACE command.

**MAP responses with associated meanings and actions**

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| <b>MAP response:</b> | Invalid symbol: <Option> {ALL,<br>SET <SetNo> {0 TO 9}}                                |
|                      | Enter: <Option>                                                                        |
| <b>Meaning:</b>      | The trace set is nil. The trace option set must be non-nil before it can be activated. |
| <b>Actions:</b>      | Either use a non-nil trace set or set the trace option by using the TRACESET command.  |



## **traceset (xipver)**

---

### **Type**

The TRACESET command is a nonmenu command.

### **Target**

The command target for the TRACESET command is BRISC.

### **Description**

The TRACESET command specifies a trace option set that can be used by the TRACE command to trace messages. The XIPVER tool supports up to 10 trace option sets that can be specified using the TRACESET command. Messages can be traced based on a COMID or IP address. Message tracing can be further narrowed based on incoming or outgoing messages.

### **Release history**

This section identifies if the command is new or changed, and the applicable software release.

#### **TOPS13**

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### **Qualifications and warnings**

The qualifications and warnings are as follows:

- The TRACESET command can be used to set up to 10 trace option sets.
- If specifying a COMID, it should be in the valid range 0 to 1023. The IP address should also be in a correct format, that is, four integers ranging from 0 to 255, separated by spaces.
- The TRACESET command does not activate or deactivate the trace. To enable or disable a particular trace set option, the TRACE command should be used
- Change of an active trace set option automatically disables it. Then activate it again using the TRACE command.

### **Syntax**

The TRACESET command syntax is as follows:

```
> TRACESET ALL CLEAR

> TRACESET SET <0-9> CLEAR

> TRACESET SET <0-9> MESSAGE COMID <0-1023> <IN, OUT, or BOTH>
```

---

**traceset (xipver)** (continued)

---

- > TRACESET SET <0-9> MESSAGE IP <0-255 0-255 0-255 0-255> IN  
(Note, the MAP display indicates directions IN, OUT, or BOTH are valid; however, only IN is supported.)
- > TRACESET SET <0-9> MESSAGE XPM DTC <0-255> <IN, OUT, or BOTH>
- > TRACESET SET <0-9> MESSAGE XPM PDTC <0-255> <IN, OUT, or BOTH>
- > TRACESET SET <0-9> MESSAGE ALL <IN, OUT, or BOTH>
- > TRACESET SET <0-9> PACKET ALL <IN, OUT, or BOTH>

**Example**

The following table provides examples of the TRACESET command.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                                       |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > TRACESET 3 FFAB01<br>> TRACESET 3 IP ALL<br>> TRACESET COM 10<br>> TRACESET                                         |
| <b>Description of task:</b> | If an incorrect format is used for the parameters or a non-nil trace set is updated, the command syntax is displayed. |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b>        | <p>Next par is: &lt;Option&gt; {ALL &lt;Option&gt; {CLEAR},</p> <p>SET &lt;SetNumber&gt; {0 TO 9}</p> <p>&lt;Op1&gt; {CLEAR [&lt;No parameters&gt; STRING],</p> <p>MESSAGE &lt;Op2&gt; {COMID &lt;COMID&gt; {0 TO 1023},</p> <p>IP &lt;W0 B0&gt; {0 TO 255}</p> <p>&lt;W0 B1&gt; {0 TO 255}</p> <p>&lt;W1 B0&gt; {0 TO 255}</p> <p>&lt;W1 B1&gt; {0 TO 255},</p> <p>XPM &lt;Name&gt; {DTC &lt;No&gt; {0 TO 255,</p> <p>PDTC &lt;No&gt; {0 TO 25}}},</p> <p>ALL}</p> <p>&lt;Direction&gt; {IN,</p> <p>OUT,</p> <p>BOTH}},</p> <p>PACKET &lt;Op2&gt; {ALL}</p> <p>&lt;Direction&gt; {IN,</p> <p>OUT,</p> <p>BOTH}}}}</p> <p>Enter: &lt;Option&gt;</p> |
| <b>Command:</b>             | <pre>&gt; TRACESET SET 0 MESSAGE ALL IN &gt; TRACESET SET 1 MESSAGE COMID 100 OUT &gt; TRACESET SET 2 MESSAGE XPM DTC 5 BOTH &gt; TRACESET SET 3 MESSAGE IP 47 142 226 106 BOTH &gt; TRACESET SET 4 PACKET ALL IN &gt; TRACESET SET 5 CLEAR &gt; TRACESET ALL CLEAR</pre>                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description of task:</b> | <p>If the TRACESET command is used with correct parameters, the TRACSET value is updated.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MAP response:</b>        | <pre>TRACESET 0: MESSAGES ALL DIRECTION IN TRACESET 1: MESSAGES COMID 100 DIRECTION OUT TRACESET 2: MESSAGES XPM DTC 5 DIRECTION BOTH TRACESET 3: MESSAGES IP 47.142.226.106 DIRECTION BOTH TRACESET 4: PACKETS ALL DIRECTION IN TRACESET 5: NIL ALL TRACESETS: CLEARED</pre>                                                                                                                                                                                                                                                                                                                                                                       |

---

**traceset (xipver) (end)**

---

## Responses

The following table explains possible responses to the TRACESET command.

### MAP responses with associated meanings and actions

|                      |                                                                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | The command syntax is displayed as shown above.                                                                                                                                                                      |
| <b>Meaning:</b>      | Display the trace option set.                                                                                                                                                                                        |
| <b>Actions:</b>      | Either the wrong syntax was entered or a non-nil trace set was updated. For the wrong syntax, re-enter the command with the correct syntax. For a non-nil trace set, either clear the set or select a different set. |

## ttlive (xipver)

---

### Type

The TTLIVE command is a nonmenu command.

### Target

The command target for the TTLIVE command is BRISC.

### Description

The TTLIVE command sets the time to live parameter for the PING command.

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- The time to live is specified in the number of hops and the valid range is 1 to 10.

### Syntax

The TTLIVE command syntax is as follows:

```
> ttlive <1 to 10>
```

### Example

The following table provides an example of the TTLIVE command.

#### Command example (Sheet 1 of 2)

|                             |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| <b>Command:</b>             | > TTLIVE                                                                     |
| <b>Description of task:</b> | If the command is entered with no parameter, the current value is displayed. |
| <b>MAP response:</b>        | TTLIVE: 4                                                                    |
| <b>Command:</b>             | > TTLIVE 11                                                                  |
| <b>Description of task:</b> | If an invalid parameter is entered, an error message is displayed.           |

---

**ttlive (xipver) (end)**

---

**Command example (Sheet 2 of 2)**

|                             |                                                                            |
|-----------------------------|----------------------------------------------------------------------------|
| <b>MAP response:</b>        | EITHER incorrect optional parameter(s) OR too many parameters.<br>TTLIVE:4 |
| <b>Command:</b>             | > TTLIVE 8                                                                 |
| <b>Description of task:</b> | If the command is entered with a valid parameter, the value is updated..   |
| <b>MAP response:</b>        | TTLIVE:8                                                                   |

**Responses**

The following table explains possible responses to the TTLIVE command.

**MAP responses with associated meanings and actions**

|                      |                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | TTLIVE: <value>                                                                                                 |
| <b>Meaning:</b>      | Either a valid parameter was entered or the command was entered with no parameter to request the current value. |
| <b>Actions:</b>      | None                                                                                                            |

## udpsocket (xipver)

---

### Type

The UDPSOCKET command is a nonmenu command.

### Target

The command target for the UDPSOCKET command is BRISC.

### Description

The UDPSOCKET command sets the XIPVER tool as a UDP socket. This command does not use the destination IP address nor destination port parameters. In order to create a UDP socket, the XIPVER tool should not have any prior TCP connection or be currently setup as a TCP server nor UDP socket. All old connections need to be disconnected using the CLOSE command before using this command

### Release history

This section identifies if the command is new or changed, and the applicable software release.

#### TOPS13

Feature A59007546 in functionality TOPS IP Evolution, OSB00001, introduced this command.

### Qualifications and warnings

The qualifications and warnings are as follows:

- The XIPVER tool should not be currently connected nor used as a TCP server nor UDP socket before this command. All prior connections should be dropped before creating a server using this command.

### Syntax

The UDPSOCKET command syntax is as follows:

```
> udpsocket
```

### Example

The following table provides an example of the UDPSOCKET command.

#### Command example (Sheet 1 of 2)

|                             |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | > UDPSOCKET                                                                                             |
| <b>Description of task:</b> | If the XIPVER tool is already connected to a remote machine, the request for socket creation is denied. |

**udpsocket (xipver)** (continued)**Command example (Sheet 2 of 2)**

|                             |                                                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b>        | Socket Request Denied. Already connected to 132.12.43.65:120                                                                                |
| <b>Command:</b>             | > UDPSOCKET                                                                                                                                 |
| <b>Description of task:</b> | If a server is already set up, the request for socket creation is denied.                                                                   |
| <b>MAP response:</b>        | Socket Request Denied. Already listening as TCP server<br>48.124.123.41:12435                                                               |
| <b>Command:</b>             | > UDPSOCKET                                                                                                                                 |
| <b>Description of task:</b> | If a UDP socket is already set up, the request for socket creation is denied.                                                               |
| <b>MAP response:</b>        | Socket Request Denied. Already set up as a UDP socket<br>48.124.123.41:12435                                                                |
| <b>Command:</b>             | >COMIDBIND 100<br>COMID: 100<br>> UDPSOCKET                                                                                                 |
| <b>Description of task:</b> | A message is displayed when a UDP socket is successfully created. Note, the socket is created for the COMID bound by the COMIDBIND command. |
| <b>MAP response:</b>        | 190.24.32.213:1340 UDP socket created                                                                                                       |
| <b>Command:</b>             | > UDPSOCKET                                                                                                                                 |
| <b>Description of task:</b> | If a socket request fails, the reason of failure is displayed.                                                                              |
| <b>MAP response:</b>        | UDP socket request failed:<Reason>                                                                                                          |

**Responses**

The following table explains possible responses to the UDPSOCKET command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <Source IP Address>:<Source Port> UDP socket created                                                                                                            |
| <b>Meaning:</b>      | The server has been created and it is listening for any incoming data.                                                                                          |
| <b>Actions:</b>      | The system waits for any incoming messages from a remote client. When a message is received from a client, the message is displayed. No user action is required |
| <b>MAP response:</b> | Socket Request Denied. Already connected to <IP Address>:<Port>                                                                                                 |



## udpsocket (xipver) (end)

---

### MAP responses with associated meanings and actions (Sheet 2 of 2)

|                      |                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b>      | The server can not be created because the XIPVER tool is already connected to a destination machine.                        |
| <b>Actions:</b>      | Either close the current connection by using the CLOSE command or open XIPVER in another MAP session to connect.            |
| <b>MAP response:</b> | Socket Request Denied. Already listening as <TCP server/UDP socket><br><Source IP Address>:<Source Port>                    |
| <b>Meaning:</b>      | The server can not be created because the XIPVER tool is already set up as a TCP server or a UDP socket.                    |
| <b>Actions:</b>      | Either close the current TCP server/UDP socket by using the CLOSE command or open XIPVER in another MAP session to connect. |
| <b>MAP response:</b> | UDP socket request failed: <Reason>                                                                                         |
| <b>Meaning:</b>      | Socket request failed. A socket request can fail due to <reason>.                                                           |
| <b>Actions:</b>      | Try to fix the source of the failure. Refer to the TOPS IP User's Guide.                                                    |

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## 33 XRSECHG level commands

---

This chapter provides an overview of the XRSECHG level. This chapter also provides detailed information on new or changed commands in the XRSECHG level.

The following table alphabetically lists the commands available at the XRSECHG level.

**Table 33-1**

| Command     |
|-------------|
| CHANGE_XRSE |

### Description

Use the XRSECHG CI tool to change the value of the office parameter, XLAPLAN\_RATEAREA\_SERVORD\_ENABLED (XRSE) from OFF and OPTIONS\_ENABLED to MANDATORY\_PROMPTS. When necessary, this tool can be used to change the state of the office parameter back to MANDATORY\_PROMPTS.

This tool is password protected and is recommended to be used only if you have not added any new tuples to the table LINEATTR or deleted tuples from XLAPLAN or RATEAREA. If the conditions are not met, a warning will be issued that warns users about any corrupted tuples in table LINEATTR.

### How to access the XRSECHG level

Access the XRSECHG level from the CI environment:

> **xrsechg**

**Note:** The following warning messages are displayed, when the user enters the tool environment.

Contact NORTEL TECHNICAL SUPPORT before using this tool.

WARNING! The tool is recommended to be used only if no new tuples have been added to the table LINEATTR since the office parameter

XLAPLAN\_RATEAREA\_SERVORD\_ENABLED state has been set to MANDATORY\_PROMPTS.

Data corruption can occur in table LINEATTR for fields LTG, DFLTCLP and DFLTRA.

For a list of available commands type: HELP

To return to CI prompt, enter 'QUIT'.

## How to return to the CI

Return to the CI environment:

```
> quit
```

---

**change\_xrse**

---

**Type**

The change\_xrse command is a non-menu command.

**Target**

The command target for the change command is ALL.

**Description**

Use the change\_xrse command to change the state of the office parameter XRSE from OFF and OPTIONS\_ENABLED to MANDATORY\_PROMPTS. When necessary, the command can be used to change the state of the office parameter XRSE from MANDATORY\_PROMPTS to OFF or OPTIONS\_ENABLED.

When you set the XRSE parameter to MANDATORY\_PROMPTS, the LTG, DFLTSLP and DFLTRA fields in table LINEATTR are removed from the table.

**Release history**

This section identifies if the command is new or changed, as well as the applicable software release.

**CCM12**

Feature 59007043 introduces the change\_xrse command.

**Limitations and restrictions**

The command supports only the following state changes for the office parameter, XRSE:

- OFF to MANDATORY\_PROMPTS
- OPTIONS\_ENABLED to MANDATORY\_PROMPTS
- MANDATORY\_PROMPTS to OFF
- MANDATORY\_PROMPTS to OPTIONS\_ENABLED

The OFF to OPTIONS\_ENABLED and OPTIONS\_ENABLED to OFF state changes are not supported and can be executed through table control.

**change\_xrse** (continued)

---

**Syntax**

The change\_xrse command syntax is as follows:

```
change_xrse <TO>{OFF, OPTIONS_ENABLED, MANDATORY_PROMPTS}
```

The following table describes the parameters and variables of the command.

**Command parameter and variable descriptions**

| Parameters and variables | Value | Description                                                                                                               |
|--------------------------|-------|---------------------------------------------------------------------------------------------------------------------------|
| OFF                      | N/A   | Changes the state of the office parameter, XRSE to OFF, if the current state is set to MANDATORY_PROMPTS.                 |
| OPTIONS_ENABLED          | N/A   | Changes the state of the office parameter, XRSE to OPTIONS_ENABLED, if the current state is set to MANDATORY_PROMPTS.     |
| MANDATORY_PROMPTS        | N/A   | Changes the state of the office parameter, XRSE to MANDATORY_PROMPTS, if the current state is set to OFF/OPTIONS_ENABLED. |

**Examples**

The following table provides an example of the change\_xrse command when the office parameter is set to OFF and the user changes it to MANDATORY\_PROMPTS.

**Command example (Sheet 1 of 2)**

|                             |                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt; change_xrse MANDATORY PROMPTS</b> (OFF to MANDATORY_PROMPTS)                                                                                                 |
| <b>Description of task:</b> | When the office parameter is set to OFF state, the execution of the command CHANGE_XRSE MANDATORY_PROMPTS causes the office parameter to change to MANDATORY_PROMPTS |

**change\_xrse** (continued)**Command example (Sheet 2 of 2)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <p>WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter will be changed from OFF to MANDATORY_PROMPTS. Service order changes may impact automated translation provisioning support systems.</p> <p>Notify translation and line provisioning personnel</p> <p>NOTE: Package LOC00025 must be purchased prior to enabling this feature</p> <p>Please confirm ("YES", "Y", "NO", or "N"):</p> <p>&gt;y</p> <p>WARNING: The XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter has been changed from OFF to MANDATORY_PROMPTS. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel</p> <p>Specific operational impacts resulting from this change are:</p> <ul style="list-style-type: none"> <li>-LINEATTR_OR_LCC or LINEATTR, XLAPLAN AND RATEAREA are mandatory prompts for the NEW, EST, ADD, NEWDN and CDN SERVORD commands.</li> <li>-The LINEATTR, XLAPLAN and RATEAREA tables are completely decoupled. The LTG, DFLTXLP and DFLTRA fields will be removed from table LINEATTR.</li> <li>- The ATTRBS option under CHG can be used to modify the LINEATTR, XLAPLAN and RATEAREA keys assigned to a line in a single service order.</li> <li>- The LTG, LATANM, MRSA, SCRNCN and PRTNM prompts are removed from the prompting sequence of the NEW, EST, ADD, NEWDN and CDN commands. The HOT and FANDIGS options are no longer available for the NEW, EST and ADD commands.</li> <li>- The CLTG SERVORD command is disabled.</li> <li>- Query commands will display XLAPLAN and RATEAREA keys.</li> </ul> <p>TUPLE CHANGE SUCCESSFUL</p> |
| <b>Explanation:</b>  | <p>This response indicates that the value of the office parameter XRSE has been successfully changed from OFF to MANDATORY_PROMPTS. If the user typed in NO or N for the response, the state of the office parameter remains unchanged.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**change\_xrse** (continued)**Responses**

The following table explains possible responses to the CHANGE\_XRSE command.

**MAP responses with associated meanings and actions (Sheet 1 of 9)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;change_xrse MANDATORY_PROMPTS</b>                                                                                                                                                                                                                                                                                                                                             |
| <b>MAP response:</b> | WARNING! The XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter will be changed from OFF to MANDATORY_PROMPTS. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel.<br>NOTE: Package LOC00025 must be purchased prior to enabling this feature.<br>Please confirm ("YES", "Y", "NO", or "N"): |
| <b>Meaning:</b>      | This response appears when the user executes the change_xrse command to change the office parameter state from OFF to MANDATORY_PROMPTS state. The change can impact the automated translation and provisioning support systems.                                                                                                                                                     |
| <b>Actions:</b>      | The user must analyse whether the package LOC00025 is purchased or not prior to enabling the change of office parameter state.                                                                                                                                                                                                                                                       |
| <b>Command:</b>      | <b>&gt;change_xrse OPTIONS_ENABLED</b>                                                                                                                                                                                                                                                                                                                                               |
| <b>MAP response:</b> | WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter will be changed from OPTIONS_ENABLED to MANDATORY_PROMPTS. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel.<br>NOTE:Please confirm ("YES", "Y","NO", or "N"):                                                                 |
| <b>Meaning:</b>      | This response appears when the user executes the change_xrse command to change the office parameter state from OPTIONS_ENABLED to MANDATORY_PROMPTS state. The change can impact the automated translation and provisioning support systems.                                                                                                                                         |
| <b>Actions:</b>      | The user must analyse whether the package LOC00025 is purchased or not prior to enabling change of office parameter state.                                                                                                                                                                                                                                                           |
| <b>Command:</b>      | <b>&gt;change_xrse OFF</b>                                                                                                                                                                                                                                                                                                                                                           |

**change\_xrse** (continued)**MAP responses with associated meanings and actions (Sheet 2 of 9)**

|                      |                                                                                                                                                                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter will be changed from MANDATORY_PROMPTS to OFF. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel. NOTE:Please confirm ("YES", "Y", "NO", or "N"):             |
| <b>Meaning:</b>      | This response appears when the user executes the change_xrse command to change the office parameter state from MANDATORY_PROMPTS to OFF state. The change can impact the automated translation and provisioning support systems.                                                                                   |
| <b>Actions:</b>      | The user must analyse whether the package LOC00025 is purchased or not prior to enabling change of office parameter state.                                                                                                                                                                                         |
| <b>Command:</b>      | <b>&gt;change_xrse OPTIONS_ENABLED</b>                                                                                                                                                                                                                                                                             |
| <b>MAP response:</b> | WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter will be changed from MANDATORY_PROMPTS to OPTIONS_ENABLED. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel. NOTE:Please confirm ("YES", "Y", "NO", or "N"): |
| <b>Meaning:</b>      | This response warns the users that the state of the office parameter, XRSE will be changed from MANDATORY_PROMPTS to OPTIONS_ENABLED state. The change can impact the automated translation and provisioning support systems.                                                                                      |
| <b>Actions:</b>      | The user must analyse whether the package LOC00025 is purchased or not prior to enabling change of office parameter state.                                                                                                                                                                                         |
| <b>Command:</b>      | <b>&gt;change_xrse MANDATORY_PROMPTS</b>                                                                                                                                                                                                                                                                           |



**change\_xrse** (continued)

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**MAP responses with associated meanings and actions (Sheet 3 of 9)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <p>WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter has been changed from OFF to MANDATORY_PROMPTS. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel.</p> <p>Specific operational impacts resulting from this change are:</p> <ul style="list-style-type: none"><li>-LINEATTR_OR_LCC or LINEATTR, XLAPLAN and RATEAREA are mandatory prompts for the NEW, EST, ADD, NEWDN and CDN SERVORD commands.</li><li>-The LINEATTR, XLAPLAN and RATEAREA tables are completely decoupled. The LTG, DFLTCLP and DFLTRA fields will be removed from table LINEATTR.</li><li>-The ATTRBS options under CHG can be used to modify the LINEATTR, XLAPLAN and RATEAREA keys assigned to a line in a single service order.</li><li>-The LTG, LATANM, MRSA, SCRNCN and PRTNM prompts are removed from the prompting sequence of the NEW, EST, ADD, NEWDN and CDN commands. The HOT and FANIDIGS options are no longer available for the NEW, EST and ADD commands.</li><li>-The CLTG SERVORD command is disabled.</li><li>-Query commands will display XLAPLAN and RATEAREA keys.</li></ul> <p>TUPLC CHANGE SUCCESSFUL</p> |
| <b>Meaning:</b>      | This response indicates that the state of office parameter XRSE changed from OFF to MANDATORY_PROMPTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Command:</b>      | <b>&gt;change_xrse MANDATORY_PROMPTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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**change\_xrse** (continued)

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**MAP responses with associated meanings and actions (Sheet 4 of 9)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <p>WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter has been changed from OPTIONS_ENABLED to MANDATORY_PROMPTS. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel.</p> <p>Specific operational impacts resulting from this change are:</p> <ul style="list-style-type: none"><li>-The XLAPLAN and RATEAREA line options are disabled.</li><li>-LINEATTR_OR_LCC or LINEATTR, XLAPLAN and RATEAREA are mandatory prompts for the NEW, EST, ADD, NEWDN and CDN SERVORD commands</li><li>-The LINEATTR, XLAPLAN and RATEAREA tables are completely decoupled. The LTG, DFLTSLP and DFLTRA fields will be removed from table LINEATTR.</li><li>-The ATTRBS option under CHG can be used to modify the LINEATTR, XLAPLAN and RATEAREA keys assigned to a line in a single service order</li><li>-The LTG, LATANM, MRSA, SCRNCN and PRTNM prompts are removed from the prompting sequence of the NEW, EST, ADD, NEWDN and CDN commands. The HOT and FANIDIGS options are no longer available for the NEW, EST and ADD commands.</li></ul> <p>TUPLE CHANGE SUCCESSFUL</p> |
| <b>Meaning:</b>      | This response indicates that the state of office parameter XRSE changed from OPTIONS_ENABLED to MANDATORY_PROMPTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Command:</b>      | >change_xrse OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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**change\_xrse** (continued)

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**MAP responses with associated meanings and actions (Sheet 5 of 9)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <p>WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter has been changed from MANDATORY_PROMPTS to OFF. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel.</p> <p>Specific operational impacts resulting from this change are:</p> <ul style="list-style-type: none"><li>-LINEATTR_OR_LCC or LINEATTR, XLAPLAN and RATEAREA are no longer mandatory prompts for the NEW, EST, ADD, NEWDN and CDN SERVORD commands.</li><li>-The fields LTG, DFLTXLP and DFLTRA are available in table LINEATTR.</li><li>-The LTG, LATANM, MRSA, SCRNCN and PRTNM prompts are available for the prompting sequence of the NEW, EST, ADD, NEWDN and CDN commands.</li><li>-HOT and FANIDIGS options are available for the NEW, EST and ADD commands.</li><li>-The CLTG command is enabled.</li><li>-The CHG command cannot be used to change the LINEATTR, XLAPLAN, RATEAREA and LTG provisioned against a line.</li><li>-Query commands will not display XLAPLAN and RATEAREA keys.</li></ul> <p>IMPORTANT WARNING! Data corruption can occur, if new lineattr tuples have been added or if any tuple in table XLAPLAN or table RATEAREA have been deleted since the parameter has been set to MANDATORY_PROMPTS. Specifically, verify the LTG, DFLTXLP and DFLTRA fields in table LINEATTR.</p> <p>Please contact NORTEL TECHNICAL SUPPORT</p> <p>TUPLE CHANGE SUCCESSFUL</p> |
| <b>Meaning:</b>      | This response indicates that the state of office parameter XRSE changed from MANDATORY_PROMPTS to OFF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Command:</b>      | <b>&gt;change_xrse MANDATORY_PROMPTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**change\_xrse** (continued)**MAP responses with associated meanings and actions (Sheet 6 of 9)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <p>WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter has been changed from OFF to MANDATORY_PROMPTS. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel.</p> <p>Specific operational impacts resulting from this change are:</p> <ul style="list-style-type: none"> <li>- LINEATTR_OR_LCC or LINEATTR, XLAPLAN and RATEAREA are mandatory prompts for the NEW, EST, ADD, NEWDN and CDN SERVORD commands.</li> <li>- The LINEATTR, XLAPLAN and RATEAREA tables are completely decoupled. The LTG, DFLTXLP and DFLTRA fields will be removed from table LINEATTR.</li> <li>- The ATTRBS option under CHG can be used to modify the LINEATTR, XLAPLAN and RATEAREA keys assigned to a line in a single service order.</li> <li>- The LTG, LATANM, MRSA, SCRNCN and PRTNM prompts are removed from the prompting sequence of the NEW, EST, ADD, NEWDN and CDN commands. The HOT and FANIDIGS options are no longer available for the NEW, EST and ADD commands.</li> <li>- The CLTG SERVORD command is disabled.</li> <li>- Query commands will display XLAPLAN and RATEAREA keys.</li> </ul> <p>TUPLE CHANGE SUCCESSFUL</p> |
| <b>Meaning:</b>      | This response indicates the state of the XRSE office parameter changed from OFF to MANDATORY_PROMPTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Command:</b>      | <b>&gt;change_xrse OPTIONS_ENABLED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**change\_xrse** (continued)

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**MAP responses with associated meanings and actions (Sheet 7 of 9)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <p>WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter has been changed from MANDATORY_PROMPTS to OPTIONS_ENABLED.. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel.</p> <p>Specific operational impacts resulting from this change are:</p> <ul style="list-style-type: none"><li>-LINEATTR_OR_LCC or LINEATTR, XLAPLAN and RATEAREA are mandatory prompts for the NEW, EST, ADD, NEWDN and CDN SERVORD commands.</li><li>-XLAPLAN and RATEAREA are now available as line options for NEW, EST, ADD servord commands.</li><li>-The fields LTG, DFLTXLP and DFLTRA are available in table LINEATTR.</li><li>-The LTG, LATANM, MRSA, SCRNCN and PRTNM prompts are available for the prompting sequence of the NEW, EST, ADD, NEWDN and CDN commands.</li><li>-HOT and FANIDIGS options are available for the NEW, EST and ADD commands.</li></ul> <p>IMPORTANT WARNING!Data corruption can occur, if new lineattr tuples have been added or if any tuple in table XLAPLAN or table RATEAREA have been deleted since the parameter has been set to MANDATORY_PROMPTS. Specifically verify the LTG, DFLTXLP and DFLTRA fields in table LINEATTR.</p> <p>Please contact NORTEL TECHNICAL SUPPORT</p> <p>TUPLE CHANGE SUCCESSFUL.</p> |
| <b>Meaning:</b>      | This response indicates that the state of office parameter XRSE changed from MANDATORY_PROMPTS to OPTIONS_ENABLED..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**change\_xrse** (continued)**MAP responses with associated meanings and actions (Sheet 8 of 9)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAP response:</b> | <p>WARNING! XLAPLAN_RATEAREA_SERVORD_ENABLED office parameter has been changed from OFF to MANDATORY_PROMPTS. Service order changes may impact automated translation and provisioning support systems. Notify translation and line provisioning personnel.</p> <p>Specific operational impacts resulting from this change are:</p> <ul style="list-style-type: none"> <li>- LINEATTR_OR_LCC or LINEATTR, XLAPLAN and RATEAREA are mandatory prompts for the NEW, EST, ADD, NEWDN and CDN SERVORD commands.</li> <li>- The LINEATTR, XLAPLAN and RATEAREA tables are completely decoupled. The LTG, DFLTXLP and DFLTRA fields will be removed from table LINEATTR.</li> <li>- The ATTRBS option under CHG can be used to modify the LINEATTR, XLAPLAN and RATEAREA keys assigned to a line in a single service order.</li> <li>- The LTG, LATANM, MRSA, SCRNCN and PRTNM prompts are removed from the prompting sequence of the NEW, EST, ADD, NEWDN and CDN commands. The HOT and FANIDIGS options are no longer available for the NEW, EST and ADD commands.</li> <li>- The CLTG SERVORD command is disabled.</li> <li>- Query commands will display XLAPLAN and RATEAREA keys.</li> </ul> <p>TUPLE CHANGE SUCCESSFUL</p> |
| <b>Meaning:</b>      | This response indicates the state of the XRSE office parameter changed from OFF to MANDATORY_PROMPTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Command:</b>      | <b>&gt;change_xrse MANDATORY_PROMPTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MAP response:</b> | <p>WARNING! The office parameter XLAPLAN_RATEAREA_SERVORD_ENABLED is already set to MANDATORY_PROMPTS.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Meaning:</b>      | This response warns the user that the state of the office parameter is set to MANDATORY_PROMPTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Actions:</b>      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Command:</b>      | <b>&gt;change_xrse OPTIONS_ENABLED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MAP response:</b> | <p>ERROR: The specified change of office parameter state is not supported by this tool. Please use table control to change the state of the office parameter.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## **change\_xrse** (end)

---

### **MAP responses with associated meanings and actions (Sheet 9 of 9)**

|                 |                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------|
| <b>Meaning:</b> | This response indicates the user cannot change the XRSE state between OFF and OPTIONS_ENABLED. |
| <b>Actions:</b> | The user must use table control to change between the states, OFF and OPTIONS_ENABLED.         |

---

**help**

---

**Type**

The help command is a non-menu command.

**Target**

The command target for the help command is ALL.

**Description**

The help command gives the list of all the available tool commands and their descriptions.

**Release history**

This section identifies if the command is new or changed, as well as the applicable software release.

**CCM12**

This command appeared for the first time in NA012.

**Limitations and restrictions**

The help command has no limits or restrictions.

**Syntax**

The help command syntax is as follows:

help

**Example**

The following table provides an example of the help command.

**Command example**

|                             |                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;help</b>                                                                                                                                                                                                                                              |
| <b>Description of task:</b> | To obtain help for the CHANGE_XRSE command.                                                                                                                                                                                                                  |
| <b>MAP response:</b>        | XRSECHG COMMANDS:<br>CHANGE_XRSE..Change the state of the office parameter<br>XLAPLAN_RATEAREA_SERVORD_ENABLED from<br>MANDATORY_PROMPTS to OPTIONS_ENABLED<br>HELP      List of sub-commands available in XRSECHG tool<br>QUIT      Exit from XRSECHG tool. |
| <b>Explanation:</b>         | This command provides help on the change_xrse command.                                                                                                                                                                                                       |



**help** (end)

---

## Responses

No system responses get generated.

**rsdt****Type**

The rsdt command is a non-menu command.

**Target**

The command target for the rsdt command is BRISC.

**Description**

The rsdt command, CHGLT option allows LK against an RSDT DN to be modified.

**Release history**

This section identifies if the command is new or changed, as well as the applicable software release.

**CCM12**

The CCM12 release introduced the CHGLT option.

**Limitations and restrictions**

The rsdt command has no limitations or restrictions.

**Syntax**

The <command\_name> command syntax is as follows:

```
rsdt <ACTION>{CHGDN <RSDT_DN>STRING
 <NEW_DN>STRING,
 CHGLT <RSDT_DN>STRING
 <LNATTIDX>STRING,
 ACT,
 DEACT,
 AUDIT}
```

The following table describes the parameters and variables of the RSDT command.

**Command parameter and variable descriptions (Sheet 1 of 2)**

| Parameters and variables | Value | Description                               |
|--------------------------|-------|-------------------------------------------|
| CHGDN                    |       | This option is used to change the RSDT DN |
| RSDT_DN                  |       | This parameter is the existing RSDT DN    |
| NEW_DN                   |       | This parameter is the new RSDT DN         |

**rsdt** (continued)

---

**Command parameter and variable descriptions (Sheet 2 of 2)**

| Parameters and variables | Value | Description                                                     |
|--------------------------|-------|-----------------------------------------------------------------|
| CHGLT                    |       | This option is used to change the LINEATTR Key against RSDT DN. |
| LNATTIDX                 |       | This is the new Lineattr Key for RSDT DN.                       |
| ACT                      |       | Use this parameter to activate RSDT functionality.              |
| DEACT                    |       | Use this parameter to deactivate the RSDT functionality.        |
| AUDIT                    |       | Use this parameter to perform consistency checks.               |

**Example**

The following table provides an example of the rsdt command.

**Command example**

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| <b>Command:</b>             | <b>&gt;RSDT CHGLT 6631001 ABCDEFGHIJKLMNOP</b>           |
| <b>Description of task:</b> | Change LINEATTR Key against RST DN to a new valid value. |
| <b>MAP response:</b>        | RSDT COMMAND COMPLETED SUCCESSFULLY                      |
| <b>Explanation:</b>         | LK is valid and existent.                                |

**Responses**

The following table explains possible responses to the rsdt chglt command.

**MAP responses with associated meanings and actions (Sheet 1 of 2)**

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| <b>Command:</b>      | <b>&gt;rsdt chglt 6631001 non_exstent</b>                                                       |
| <b>MAP response:</b> | THE LILNEATTR KEY ENTERED FOR LNATTIDX PARAMETER IS INVALID                                     |
| <b>Meaning:</b>      | This response indicates that a non-existent LINEATTR key is being used to assign to an RSDT DN. |
| <b>Actions:</b>      | You must re-enter the command with a valid LINEATTR key to prevent this error.                  |
| <b>Command:</b>      | <b>&gt;rsdt chglt 6631001 nil</b>                                                               |
| <b>MAP response:</b> | NIL LINEATTR KEY VALUE IS NOT ALLOWED                                                           |

---

**rsdt** (end)

---

**MAP responses with associated meanings and actions (Sheet 2 of 2)**

|                 |                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Meaning:</b> | This response indicates that the LINEATTR key used to assign against an RSDT DN is 'NIL' which is not an acceptable value. |
| <b>Actions:</b> | You must re-enter the command with a new valid LINEATTR key to prevent this error.                                         |



---

## Appendix A Command/directory cross-reference

---

This chapter contains a directory cross-reference table. The table provides a complete alphabetical list of every command documented in this reference manual for TL12-based and future releases. The table also indicates the following information for each command:

- command type (menu listed, menu unlisted, or nonmenu)
- directory or MAP level

**Table A-1 (Sheet 1 of 6)**

| Command   | Type          | Directory/MAP level |
|-----------|---------------|---------------------|
| abtk      | menu unlisted | IPGW                |
| activate  | nonmenu       | C7RTR               |
| add       | nonmenu       | ECHOCI              |
| addrange  | nonmenu       | DNSCRNCI            |
| aintrace  | nonmenu       | PROGDIR             |
| almstat   | menu listed   | LTP                 |
| autodump  | nonmenu       | PROGDIR             |
| autolrecl | nonmenu       | FTP                 |
| billcomp  | nonmenu       | CI                  |
| bittrace  | nonmenu       | PROGDIR             |
| bsy       | menu listed   | C7LKSET             |
| bsy       | menu listed   | C7ROUTER            |
| bsy       | menu listed   | C7RTESET            |

**Table A-1 (Sheet 2 of 6)**

| <b>Command</b> | <b>Type</b> | <b>Directory/MAP level</b> |
|----------------|-------------|----------------------------|
| bsy            | menu listed | IDT                        |
| bsy            | menu listed | IPGW                       |
| bsy            | menu listed | OCDL                       |
| change         | nonmenu     | KEYCHG                     |
| change_xrse    | nonmenu     | XRSE                       |
| cic            | menu        | C7TTP                      |
| clog           | nonmenu     | PROGDIR                    |
| close          | nonmenu     | XIPVER                     |
| comidbind      | nonmenu     | XIPVER                     |
| comidunbind    | nonmenu     | XIPVER                     |
| commandtimeout | nonmenu     | FTP                        |
| connect        | nonmenu     | XIPVER                     |
| create         | nonmenu     | AINITT                     |
| deactivate     | nonmenu     | C7RTR                      |
| delrange       | nonmenu     | DNSCRNCI                   |
| dip            | nonmenu     | XIPVER                     |
| dmsmon         | nonmenu     | PROGDIR                    |
| dp             | nonmenu     | XIPVER                     |
| download_mtp   | nonmenu     | C7RTR                      |
| dump           | nonmenu     | PROGDIR                    |
| forceclose     | nonmenu     | XIPVER                     |
| get            | nonmenu     | FTP                        |
| getpminfo      | nonmenu     | XIPVER                     |
| help           | nonmenu     | EHCOCI                     |
| help           | nonmenu     | KEYCHG                     |
| help           | nonmenu     | XIPVER                     |

Table A-1 (Sheet 3 of 6)

| Command    | Type          | Directory/MAP level |
|------------|---------------|---------------------|
| hold       | menu          | TTP                 |
| ibnexpct   | nonmenu       | DMSMON              |
| listab     | menu          | CI                  |
| listset    | menu          | OCDL                |
| loadfw     | menu unlisted | ESA                 |
| loadpm     | menu listed   | UEN                 |
| loadpmq    | menu listed   | IPGW                |
| l3logctl   | nonmenu       | LTPISDN             |
| ls         | nonmenu       | FTP                 |
| message    | nonmenu       | XIPVER              |
| mischild   | nonmenu       | TQMIST              |
| mod        | nonmenu       | ECHOCI              |
| move       | nonmenu       | PHRRCI              |
| mtctst     | menu listed   | CM                  |
| mtrcount   | nonmenu       | CI                  |
| mtrver     | nonmenu       | CI                  |
| next       | menu listed   | IPGW                |
| next       | menu          | OCDL                |
| npreserve  | nonmenu       | PROGDIR             |
| objmgrci   | nonmenu       | PROGDIR             |
| ocdl       | menu          | TOPSIP              |
| offl       | menu listed   | C7RTESET            |
| offl       | menu listed   | IPGW                |
| offl       | menu          | OCDL                |
| oos        | menu          | MTRSYS              |
| packetsize | nonmenu       | XIPVER              |



Table A-1 (Sheet 4 of 6)

| Command     | Type        | Directory/MAP level |
|-------------|-------------|---------------------|
| ping        | nonmenu     | XIPVER              |
| pingtimeout | nonmenu     | XIPVER              |
| pmreset     | menu listed | IPGW                |
| poll        | nonmenu     | PROGDIR             |
| pollsched   | nonmenu     | PROGDIR             |
| post        | menu listed | IPGW                |
| post        | menu        | LTP                 |
| post        | menu        | OCDL                |
| post        | menu        | TTP                 |
| prccutil    | nonmenu     | PROGDIR             |
| put         | nonmenu     | FTP                 |
| q           | nonmenu     | XIPVER              |
| qcm         | nonmenu     | PROGDIR             |
| qcust       | nonmenu     | PROGDIR             |
| qdn         | nonmenu     | PROGDIR             |
| qdnwrk      | nonmenu     | PROGDIR             |
| qgrp        | nonmenu     | PROGDIR             |
| qlayer      | menu listed | LTPISDN             |
| qlen        | nonmenu     | PROGDIR             |
| qlt         | nonmenu     | PROGDIR/CI          |
| qmadn       | nonmenu     | PROGDIR             |
| qncos       | nonmenu     | PROGDIR             |
| qocdl       | menu        | OCDL                |
| qpdn        | nonmenu     | PROGDIR             |
| qphf        | nonmenu     | PROGDIR/CI          |
| qpdn        | nonmenu     | PROGDIR             |

Table A-1 (Sheet 5 of 6)

| Command    | Type          | Directory/MAP level |
|------------|---------------|---------------------|
| qscmp      | nonmenu       | PROGDIR             |
| qsl        | nonmenu       | PROGDIR             |
| querycomid | nonmenu       | XIPVER              |
| queryflt   | menu listed   | C7RTESET            |
| queryint   | nonmenu       | TFAN                |
| querytys   | nonmenu       | TFAN                |
| querypm    | menu listed   | ESA                 |
| querypm    | menu listed   | IDT                 |
| querypm    | menu listed   | IPGW                |
| querypm    | menu listed   | UEN                 |
| quit       | nonmenu       | ECHOCI              |
| quit       | menu listed   | IPGW                |
| quit       | menu          | OCDL                |
| quit       | nonmenu       | XIPVER              |
| recreate   | menu          | OCDL                |
| rem        | nonmenu       | ECHOCI              |
| reset      | nonmenu       | XIPVER              |
| rextst     | menu unlisted | CM                  |
| rlayer     | menu listed   | LTPISDN             |
| rr         | nonmenu       | XIPVER              |
| rsdt       | nonmenu       | RSDT                |
| rts        | menu listed   | C7RTESET            |
| rts        | menu listed   | IPGW                |
| rts        | menu listed   | OCDL                |
| rts        | menu listed   | UEN                 |
| send       | nonmenu       | XIPVER              |

**Table A-1 (Sheet 6 of 6)**

| <b>Command</b> | <b>Type</b> | <b>Directory/MAP level</b> |
|----------------|-------------|----------------------------|
| show           | nonmenu     | XIPVER                     |
| showusers      | nonmenu     | XIPVER                     |
| spares         | menu listed | IPGW                       |
| swld           | menu listed | UEN                        |
| tabaudit       | nonmenu     | CI                         |
| tariff         | menu        | MTRSYS                     |
| tcpserver      | nonmenu     | XIPVER                     |
| timeout        | nonmenu     | XIPVER                     |
| topsip         | menu        | APPL                       |
| tnt            | menu        | MTRSYS                     |
| tqmist         | nonmenu     | CI                         |
| trace          | nonmenu     | XIPVER                     |
| traceci        | nonmenu     | SYS                        |
| traceset       | nonmenu     | XIPVER                     |
| traver         | nonmenu     | SYS                        |
| transl         | menu listed | C7RTESET                   |
| trktot         | nonmenu     | CI                         |
| trnsi          | menu listed | IDT                        |
| trnsi          | menu listed | IPGW                       |
| trnslvf        | menu listed | TTP                        |
| tst            | menu listed | IPGW                       |
| ttlive         | nonmenu     | XIPVER                     |
| udpsocket      | nonmenu     | XIPVER                     |
| updatr         | nonmenu     | DNSCRNCI                   |
| varant         | nonmenu     | PROGDIR                    |
| xipver         | nonmenu     | CI                         |

---

## Appendix B Command/directory and command/MAP level cross-reference

---

This chapter contains the following cross-reference tables:

- “Command/directory cross-reference table” for nonmenu commands
- “Command/MAP level cross-reference table” for menu listed and menu unlisted commands

The tables provide complete alphabetical lists of every command documented in the *DMS-100 Family Commands Reference Manual*, 297-1001-822. As a command is documented in the *DMS-100 Family Command Interface Reference Manual*, 297-8991-824, the command is removed from one of the two tables.

Each table indicates the following information for each command:

- command name
- directory or MAP level

**Table B-1 Command/directory cross-reference table (Sheet 1 of 50)**

| Command | Directory |
|---------|-----------|
| 8chol   | SCPEHPET  |
| 8cnpa   | SCPEHPET  |
| 8num    | SCPEHPET  |
| 8nxx    | SCPEHPET  |
| 8ocr    | SCPEHPET  |
| 8odr    | SCPEHPET  |
| 8pots   | SCPEHPET  |
| 8serv   | SCPEHPET  |

**Table B-1 Command/directory cross-reference table (Sheet 2 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| 8servdel       | SCPEHPET         |
| 8servsort      | SCPEHPET         |
| 8shol          | SCPEHPET         |
| 8ssp           | SCPEHPET         |
| 8stat          | SCPEHPET         |
| 8time          | SCPEHPET         |
| 8todddow       | SCPEHPET         |
| abbt           | PROG             |
| abort          | TAB              |
| abort          | XPMLFP           |
| abortedial     | EINONP           |
| abortswact     | SWACTCI          |
| accsver        | PROG             |
| acddns         | ACDSHOW          |
| acdgrps        | ACDPOOL          |
| acdmr          | PROG             |
| acdpools       | PROG             |
| acdrtdis       | PROG             |
| acdshow        | PROG             |
| acg800         | CI               |
| acgctrl        | CI               |
| act            | HBSMTD           |
| activate       | MASSTC           |
| ada            | SERVORD          |
| adascont       | DASIM            |
| add            | DSKALLOC         |

**Table B-1 Command/directory cross-reference table (Sheet 3 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| add            | LOADMGMT         |
| add            | SERVORD          |
| add            | SRAMCI           |
| add            | TAB              |
| addnic         | PNPROCI          |
| addport        | PNPROCI          |
| addclass       | LOGUTIL          |
| addmember      | SHADOWUT         |
| addrange       | DNSCRNCI         |
| addrep         | LOGUTIL          |
| admingroup     | ACDSHOW          |
| ado            | SERVORD          |
| aftci          | PROG             |
| agtpos         | ACDSHOW          |
| alloc          | TQMIST           |
| almstat        | NMP              |
| alter          | C7TULINK         |
| amadump        | PROG             |
| amadumpb       | PROG             |
| amrepci        | PROG             |
| amreped        | AMREPCI          |
| ann            | DASIM            |
| annsdebug      | DRAM             |
| apply          | PATCHER          |
| apply          | TRMSDBQ          |
| asf            | PROG             |

**B-4** Command/directory and command/MAP level cross-reference**Table B-1 Command/directory cross-reference table (Sheet 4 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| assess         | DMSMON           |
| assign         | DRAM             |
| assign         | SOC              |
| assign         | TAB              |
| assigndump     | DRAM             |
| attach         | SYS              |
| audiogroup     | ACDSHOW          |
| auto           | QCALL            |
| auto           | TABAUDIT         |
| autocall       | DASIM            |
| autolang       | DASIM            |
| autopatch      | PROG             |
| back           | LOGUTIL          |
| backup         | DISKUT           |
| backup         | LOGUTIL          |
| backupdb       | DBUT             |
| backuplog      | DBUT             |
| bcsupdate      | PROG             |
| bicrelay       | PROG             |
| bottom         | TAB              |
| broadcast      | FM               |
| buff           | FOOTPRT          |
| buffer         | FM               |
| build          | C7TULINK         |
| bulk           | SERVORD          |
| bundle         | PATCHER          |

**Table B-1 Command/directory cross-reference table (Sheet 5 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| c7mon          | PROG             |
| c7tu           | PROG             |
| c7tudtc        | C7TU             |
| c7tulink       | C7TU             |
| c7tuprt        | C7TU             |
| c7turec        | C7TU             |
| c7turfc        | C7TU             |
| c              | ISIGMON          |
| calldump       | PROG             |
| cancel         | AUTOPATCH        |
| cancel         | C7TUTRFC         |
| cancel         | DBUT             |
| cancel         | SWUPGRADE        |
| capture        | MONMPC           |
| car            | QCALL            |
| cbkup          | HBSXFER          |
| ccannopt       | DASIM            |
| ccbiltype      | DASIM            |
| ccpoolid       | DASIM            |
| cdn            | SERVORD          |
| cdcsetup       | PROG             |
| cfq            | ADT              |
| change         | EDIT             |
| change         | LOADMGMT         |
| change         | TAB              |
| chdn           | SERVORD          |



**Table B-1 Command/directory cross-reference table (Sheet 6 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| check          | PATCHER          |
| checkcm        | MAKERES          |
| checkrel       | PROG             |
| chf            | SERVORD          |
| chg            | SERVORD          |
| chl            | SERVORD          |
| cicp           | SERVORD          |
| ciprompt       | SYS              |
| ckln           | SERVORD          |
| clas           | QCALL            |
| class          | LOGUTIL          |
| cld            | QCALL            |
| clear          | AUTOTABAUDIT     |
| clear          | DASIM            |
| clear          | LOGUTIL          |
| clear          | MTXTRACK         |
| clear          | SWUPGRADE        |
| clear          | TABAUDIT         |
| clearboot      | DSKUT            |
| clearbootfl    | DISKUT           |
| clearcnt       | SRAMCNT          |
| clearst        | SYS              |
| clearvol       | DISKUT           |
| cllirbt        | PROG             |
| clliref        | PROG             |
| cln            | SERVORD          |

**Table B-1 Command/directory cross-reference table (Sheet 7 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| clr            | TQMIST           |
| clrbuf         | NMP              |
| clrinvg        | REG              |
| cirroute       | ACDSHOW          |
| cltg           | SERVORD          |
| cnamdcag       | PROG             |
| co             | QCALL            |
| abnn           | SERVORD          |
| command        | SYS              |
| compress       | PROG             |
| connect        | DRAM             |
| context        | LOGUTIL          |
| continue       | ABBT             |
| continue       | SWUPGRADE        |
| convert        | MAKERES          |
| copy           | MAKERES          |
| copy           | PROG             |
| copyaft        | AFTCI            |
| copyfile       | SYS              |
| count          | CIN (MONLCC)     |
| count          | TAB              |
| counts         | ACDSHOW          |
| cpstat         | PROG             |
| cpstatus       | PROG             |
| createvol      | DISKADM          |
| crspools       | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 8 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| csc            | ADT              |
| cssci          | PROG, SYS        |
| ct4q           | QCALL            |
| ctype          | PROG             |
| cutmode        | LMCUT            |
| cutoff         | LMCUT            |
| cutover        | LMCUT            |
| cutover        | PROG             |
| cutreport      | LMCUT            |
| d              | ISIGMON          |
| da             | ADT              |
| dasim          | PROG             |
| data           | DASIM            |
| datadump       | BCSUPDATE        |
| date           | SYS              |
| dbaudit        | SOC              |
| dblocks        | DMSMON           |
| dbnn           | SERVORD          |
| dbstatus       | DBUT             |
| dbret          | TRMSDBQ          |
| dbscan         | TRMSDBQ          |
| dbut           | PROG             |
| dcttool        | PROG             |
| dea            | SERVORD          |
| deact          | HBSMTD           |
| dealloc        | MONMPC           |

**Table B-1 Command/directory cross-reference table (Sheet 9 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| debug          | DRAM             |
| defsvcci       | PROG             |
| define         | ABBT             |
| defineset      | SHADOWUT         |
| del            | SIGRTU           |
| del            | SERVORD          |
| delaft         | AFTCI            |
| delay          | AUTOPATCH        |
| delcf          | SERVORD          |
| delclass       | LOGUTIL          |
| deldevice      | LOGUTIL          |
| delete         | C7MON            |
| delete         | DCTTOOL          |
| delete         | DSKALLOC         |
| delete         | EDIT             |
| delete         | LOADMGMT         |
| delete         | TAB              |
| deletefl       | DISKUT           |
| deletevol      | DISKADM          |
| delmember      | SHADOWUT         |
| delnode        | SCPEHPET         |
| delog          | PROG             |
| delopt         | MAKERES          |
| delorigin      | SCPEHPET         |
| delnic         | PNPROCI          |
| delport        | PNPROCI          |

**Table B-1 Command/directory cross-reference table (Sheet 10 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| delrange       | DNSCRNCI         |
| delrep         | LOGUTIL          |
| delset         | SHADOWUT         |
| delta          | PROG             |
| demount        | SYS              |
| deo            | SERVORD          |
| deq            | CLOG             |
| describe       | SPMS             |
| detach         | SYS              |
| devcon         | LNKUTIL          |
| devdisc        | LNKUTIL          |
| device         | BCSUPDATE        |
| devstart       | LNKUTIL          |
| devstop        | LNKUTIL          |
| dgtables       | PROG             |
| diradd         | DSKALLOC         |
| dirdel         | DSKALLOC         |
| directory      | SYS              |
| dirpcopy       | PROG             |
| dirppfmt       | PROG             |
| disable        | CUTOVER          |
| disconnect     | DRAM             |
| discount       | PROG             |
| disctrl        | DSMCCS           |
| disctrl        | DSMTP            |
| diskadm        | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 11 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| diskut         | PROG             |
| disp           | CIN (MONLCC)     |
| dispall        | NMP              |
| dispbuf        | NMP              |
| display        | C7MON            |
| display        | C7TULINK         |
| display        | DCTTOOL          |
| display        | DRAM             |
| display        | DSKALLOC         |
| display        | FOOTPRT          |
| display        | MONMPC           |
| display        | MTXTRACK         |
| display        | PATCHER          |
| display        | PMIST            |
| display        | PMUPGRADE        |
| display        | SIGMON           |
| display        | SPMS             |
| display        | SWACTCI          |
| display        | SWUPGRADE        |
| display        | TAB              |
| display        | TCBCI            |
| display        | XBERT            |
| displaydisk    | DISKADM          |
| displayset     | SHADOWUT         |
| displayvols    | DISKADM          |
| display_hdr    | AFRECMAN         |

**Table B-1 Command/directory cross-reference table (Sheet 12 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| display_parm   | AFRECMAN         |
| display_trms   | AFRECMAN         |
| dlcheck        | PATCHER          |
| dmeminfo       | CPPOOL           |
| dmopro         | PROG             |
| dmsglist       | PMIST            |
| dncutoff       | LMCUT            |
| dncutover      | LMCUT            |
| dninvci        | PROG             |
| dninvci        | SYS              |
| dnlpcdmo       | PROG             |
| dnnobtst       | LMCUT            |
| dnpicdmo       | PROG             |
| dnpiclist      | PROG             |
| dns            | NETMAN           |
| dnscrnci       | PROG             |
| down           | EDIT             |
| down           | TAB              |
| downsizepool   | CPPOOL           |
| dpc            | C7TU             |
| dramrec        | PROG             |
| ds30test       | ENRETRO          |
| ds512test      | ENRETRO          |
| dsinwt         | PROG             |
| dskalloc       | DSKALLOC         |
| dskalloc       | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 13 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| dskut          | PROG             |
| dsmccs         | PROG             |
| dsmtpt         | PROG             |
| dsp            | SERVORD          |
| dump           | AMADUMP          |
| dump           | C7TULINK         |
| dump           | DASIM            |
| dump           | FOOTPRT          |
| dump           | SIGRTU           |
| dump           | TQMIST           |
| dumpall        | DMSMON           |
| dumplogs       | LOGUTIL          |
| duplicate      | DISKUT           |
| duplicate      | MASSTC           |
| eadasfmt       | PROG             |
| eadaskey       | PROG             |
| echo           | SERVORD          |
| eddcancel      | SCPEDDI          |
| eddddelete     | SCPEDDI          |
| edddump        | SCPEDDI          |
| edddresume     | SCPEDDI          |
| edddstatus     | SCPEDDI          |
| edit           | EDIT             |
| edit           | PROG             |
| eicert         | EICTS            |
| eicts          | PROG             |



**Table B-1 Command/directory cross-reference table (Sheet 14 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| einonp         | PROG             |
| ejecttape      | DISKUT           |
| emulate        | CUTOVER          |
| e              | ISIGMON          |
| enable         | MASSTC           |
| end            | EDIT             |
| endpof         | TAB              |
| enretro        | PROG             |
| enretroswct    | ENRETRO          |
| enretrover     | ENRETRO          |
| enter_bb       | AFRECMAN         |
| enter_parms    | AFRECMAN         |
| enter_subs     | AFRECMAN         |
| enter_supp     | AFRECMAN         |
| eqpcounts      | DMSMON           |
| erase          | DRAM             |
| erase          | FM               |
| erase          | SYS              |
| erasefl        | DSKUT            |
| erasent        | SYS              |
| erasesf        | SYS              |
| esatools       | PROG             |
| esatraver      | ESATOOLS         |
| esatrunk       | ESATOOLS         |
| esgoff         | PROG             |
| esp            | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 15 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| est            | SERVORD          |
| event          | MTXTRACK         |
| event          | TQMIST           |
| eventlist      | MTXTRACK         |
| exception      | SPMS             |
| exclude        | AUTOTABAUDIT     |
| exclude        | TABAUDIT         |
| exclude        | AUTOTABAUDIT     |
| execute        | TABAUDIT         |
| exit           | SWUPGRADE        |
| expand         | PROG             |
| explain        | QCALL            |
| failcnt        | NMP              |
| failmessage    | SYS              |
| fiaudgrp       | ACDSHOW          |
| file           | EDIT             |
| file           | MTXTRACK         |
| filter         | AMADUMP          |
| find           | DRAM             |
| find           | EDIT             |
| findattr       | DNSCRNCI         |
| findref        | PROG             |
| findtab        | PROG             |
| first          | LOGUTIL          |
| first          | TAB              |
| flash          | CUTOVER          |

**Table B-1 Command/directory cross-reference table (Sheet 16 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| fm             | PROG             |
| foaudgrp       | ACDSHOW          |
| footprt        | PROG             |
| forceout       | SYS              |
| forceswact     | SWACTCI          |
| format         | LOGUTIL          |
| format         | MONMPC           |
| format         | TAB              |
| formatdisk     | DISKADM          |
| forward        | LOGUTIL          |
| fpbuf          | FOOTPRT          |
| fromtable      | QVIEW            |
| ftp            | PROG             |
| ftpopen        | FTP              |
| ga             | ADT              |
| gen            | SSAC             |
| getmate        | FOOTPRT          |
| getpat         | PROG             |
| gfntest        | PROG             |
| go             | SWUPGRADE        |
| groupinfo      | ACDSHOW          |
| groupname      | ACDSHOW          |
| grpnumon       | PROG             |
| grpsetup       | PROG             |
| gxwref         | PROG             |
| haltsdm        | SDM              |

**Table B-1 Command/directory cross-reference table (Sheet 17 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| heading        | TAB              |
| help           | ABBT             |
| help           | ACDMR            |
| help           | ACDPOOL          |
| help           | ACDRTDIS         |
| help           | ACDSHOW          |
| help           | ADT              |
| help           | AFRECMAN         |
| help           | AFTCI            |
| help           | AMADUMP          |
| help           | AMREPCI          |
| help           | AUTOPATCH        |
| help           | AUTOTABAUDIT     |
| help           | DMSMON           |
| help           | BCSUPDATE        |
| help           | C7TU             |
| help           | C7TUDTC          |
| help           | C7TULINK         |
| help           | C7TUTRFC         |
| help           | CLOG             |
| help           | CUTOVER          |
| help           | DASIM            |
| help           | DBUT             |
| help           | DCRUTIL          |
| help           | DCTTOOL          |
| help           | DEFSVCCI         |

**Table B-1 Command/directory cross-reference table (Sheet 18 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| help           | DISKADM          |
| help           | DISKUT           |
| help           | DNSCRNCI         |
| help           | DRAM             |
| help           | DSINWT           |
| help           | DSKALLOC         |
| help           | DSKUT            |
| help           | DSMCCS           |
| help           | DSMTP            |
| help           | EICERT           |
| help           | EICTS            |
| help           | EINONP           |
| help           | ENETFAB          |
| help           | ENRETRO          |
| help           | ESATOOLS         |
| help           | FM               |
| help           | FOOTPRT          |
| help           | HBSMTD           |
| help           | ICTS             |
| h              | ISIGMON          |
| help           | LMCUT            |
| help           | LNKUTIL          |
| help           | LOADMGMT         |
| help           | LOGUTIL          |
| help           | MAKERES          |
| help           | MASSTC           |

**Table B-1 Command/directory cross-reference table (Sheet 19 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| help           | NETFAB           |
| help           | NETMAN           |
| help           | NMP              |
| help           | OCCTS            |
| help           | PATCHER          |
| help           | PMUPGRADE        |
| help           | PROG             |
| help           | PT               |
| help           | QCALL            |
| help           | QVIEW            |
| help           | RASL             |
| help           | REG              |
| help           | SCPCBD           |
| help           | SCPDBREQ         |
| help           | SCPEDDI          |
| help           | SCPEHPET         |
| help           | SHADOWUT         |
| help           | SIGMON           |
| help           | SIGRTU           |
| help           | SLU_CIDIR        |
| help           | SMDILNK          |
| help           | SMDRLNK          |
| help           | SNPINGCI         |
| help           | SERVORD          |
| help           | SOC              |
| help           | SPMS             |

Table B-1 Command/directory cross-reference table (Sheet 20 of 50)

| Command    | Directory |
|------------|-----------|
| help       | SRAMCI    |
| help       | SSAC      |
| help       | SWACTCI   |
| help       | SWUPGRADE |
| help       | TABAUDIT  |
| help       | TCBCI     |
| help       | TFAN      |
| help       | TQMIST    |
| help       | TRMSDBQ   |
| help       | VIP       |
| help       | XBERT     |
| highcap    | DMSMON    |
| highcpocc  | DMSMON    |
| highlogs   | DMSMON    |
| highparms  | DMSMON    |
| hlrquery   | PROG      |
| hx         | SYS       |
| ibnpiclist | PROG      |
| icert      | EICERT    |
| iclear     | EICTS     |
| iclear     | ICTS      |
| iconfig    | EICTS     |
| iconfig    | ICTS      |
| icts       | PROG      |
| if         | SYS       |
| ilrproc    | CI        |

**Table B-1 Command/directory cross-reference table (Sheet 21 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| imagename      | SYS              |
| instruct       | EICERT           |
| include        | AUTOTABAUDIT     |
| include        | TABAUDIT         |
| info           | AUTOTABAUDIT     |
| info           | TABAUDIT         |
| info           | TQMIST           |
| inform         | PATCHER          |
| inform         | TAB              |
| inhibit        | AUTOPATCH        |
| init           | ACDMR            |
| initialilze    | AFRECMAN         |
| initiate       | XBERT            |
| initupd        | SCPEHPET         |
| input          | EDIT             |
| insert         | SWUPGRADE        |
| inserttape     | DISKUT           |
| insinw         | DSINWT           |
| insmcc         | DSMCCS           |
| insmtp         | DSMTP            |
| insnode        | SCPEHPET         |
| intdn          | DASIM            |
| intercept      | C7TUDTC          |
| intercept      | C7TULINK         |
| ioption        | EICTS            |
| ioption        | ICTS             |



**Table B-1 Command/directory cross-reference table (Sheet 22 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| iquery         | EICTS            |
| iquery         | ICTS             |
| irefresh       | EICTS            |
| irefresh       | ICTS             |
| isdbg          | PROG             |
| isetup         | EICTS            |
| isetup         | ICTS             |
| italk          | SERVORD          |
| iterminate     | EICERT           |
| itrnsI         | EICTS            |
| itrnsI         | ICTS             |
| jffreeze       | PROG             |
| jesclear       | PROG             |
| kla            | ADT              |
| ktreport       | PROG             |
| lang           | DASIM            |
| lang           | QCALL            |
| last           | LOGUTIL          |
| last           | TAB              |
| lastct4q       | QCALL            |
| lbkup          | HBSXFER          |
| ldmate         | PROG             |
| leave          | DASIM            |
| leave          | ICTS             |
| leave          | MASSTC           |
| leave          | SYS              |

**Table B-1 Command/directory cross-reference table (Sheet 23 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| lindex         | SYS              |
| line           | EDIT             |
| linestr        | EDIT             |
| linkinfo       | DCRUTIL          |
| linktolen      | ISDBG            |
| list           | PROG             |
| list           | SYS              |
| list           | TAB              |
| listnt         | SYS              |
| listab         | PROG             |
| listbootfl     | DISKUT           |
| listdevs       | LOGUTIL          |
| listfl         | DISKUT           |
| listing        | DASIM            |
| listlogs       | LOGUTIL          |
| listnodes      | LOGUTIL          |
| listnt         | SYS              |
| listreps       | LOGUTIL          |
| listroute      | LOGUTIL          |
| listst         | SYS              |
| listtime       | LOGUTIL          |
| listvips       | VIP              |
| listvol        | DSKUT            |
| listvols       | DISKUT           |
| lmcut          | PROG             |
| lnkstat        | LNKUTIL          |

**Table B-1 Command/directory cross-reference table (Sheet 24 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| Inkutil        | PROG             |
| load           | PROG             |
| loadmgmt       | ACDSHOW          |
| locate         | MTXTRACK         |
| locate         | TAB              |
| logbuffer      | DMSMON           |
| logcheck       | BCSUPDATE        |
| logcount       | DMSMON           |
| logdtl         | DASIM            |
| logformat      | PROG             |
| login          | SYS              |
| loginid        | ACDSHOW          |
| logout         | SYS              |
| logtrace       | LOGUTIL          |
| logutil        | PROG             |
| lookup         | NETMAN           |
| loop           | C7TUDTC          |
| lpiclist       | PROG             |
| ltcch          | PROG             |
| makeres        | PROG             |
| mapci          | PROG             |
| masstc         | PROG             |
| match          | PATCHER          |
| matchall       | PATCHER          |
| matelink       | PROG             |
| mdbcreate      | SCPCBD           |

**Table B-1 Command/directory cross-reference table (Sheet 25 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| memattr        | PROG             |
| memory         | DMSMON           |
| metver         | PROG             |
| mminfo         | CI               |
| modcheck       | SWACTCI          |
| mode           | ACDSHOW          |
| mode           | LOGUTIL          |
| modify         | C7TUTRFC         |
| mon            | SIGRTU           |
| monlcc         | PROG             |
| monitor        | C7MON            |
| monitor        | C7TUDTC          |
| monitor        | C7TULINK         |
| monitor        | DASIM            |
| mount          | PROG             |
| mount          | SYS              |
| movebcs        | PROG             |
| mpcprint       | MONMPC           |
| mpcstart       | MONMPC           |
| mpcstop        | MONMPC           |
| mrstat         | MONMPC           |
| msg            | SYS              |
| msgcode        | C7TU             |
| mtcchk         | PROG             |
| mtrcount       | PROG             |
| mtrprint       | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 26 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| mtxalm         | PROG             |
| mtxtrack       | PROG             |
| na             | ADT              |
| ncsci          | PROG             |
| netfab         | ICTS             |
| netman         | PROG             |
| new            | SERVORD          |
| newacd         | SERVORD          |
| newdn          | SERVORD          |
| newpatch       | DMSMON           |
| next           | TAB              |
| nextvol        | HBSMTD           |
| nmp            | PROG             |
| nmreloc        | ENRETRO          |
| nmtest         | ENRETRO          |
| nobtst         | LMCUT            |
| nodeset        | PATCHER          |
| norestartswact | SWACTCI          |
| nsaudgrp       | ACDSHOW          |
| nsroute        | ACDSHOW          |
| occquerycarr   | OCCTS            |
| occquerycli    | OCCTS            |
| occqueryint    | OCCTS            |
| occqueryreg    | OCCTS            |
| occqueryts     | OCCTS            |
| occts          | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 27 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| occtsrepub     | OCCTS            |
| occtsreptsno   | OCCTS            |
| olddelta       | PROG             |
| omdump         | PROG             |
| omgetgd        | OMPRDUMP         |
| ommaster       | PROG             |
| omprtrep       | OMPRDUMP         |
| omprtset       | OMPRDUMP         |
| oms            | DMSMON           |
| omshow         | PROG             |
| onpready       | PROG             |
| open           | LOGUTIL          |
| opensecret     | LOGUTIL          |
| opr            | DMSMON           |
| oprteo         | LMCUT            |
| oprthold       | LMCUT            |
| order          | QCALL            |
| order          | QVIEW            |
| origclg        | QCALL            |
| origtrnk       | QCALL            |
| out            | SERVORD          |
| outdn          | SERVORD          |
| ovedel         | PNPROCI          |
| override       | BCSUPDATE        |
| override       | SWUPGRADE        |
| override       | TAB              |

**Table B-1 Command/directory cross-reference table (Sheet 28 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| override       | ACDSHOW          |
| owner          | SYS              |
| package        | PROG             |
| parmcals       | PROG             |
| parms          | CPSTATUS         |
| password       | ACDSHOW          |
| password       | FM               |
| patchedit      | PROG             |
| patcher        | PROG             |
| pause          | SWUPGRADE        |
| pcimon         | PROG             |
| perm           | MASSTC           |
| permit         | SYS              |
| pfxt           | QCALL            |
| phmerge        | PROG             |
| phmerge        | SYS              |
| piclist        | PROG             |
| ping           | SNPINGCI         |
| pingdef        | SNPINGCI         |
| playback       | DRAM             |
| plp            | SERVORD          |
| pmaudit        | BCSUPDATE        |
| pmconfig       | DMSMON           |
| pmloader       | PROG             |
| pmloads        | DMSMON           |
| pmmoveinv      | ENRETRO          |

**Table B-1 Command/directory cross-reference table (Sheet 29 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| pmttrnsi       | ENRETRO          |
| pof            | TAB              |
| pool           | CPPOOL           |
| poolid         | DASIM            |
| pools          | ACDPOOL          |
| poolstart      | LNKUTIL          |
| poolstop       | LNKUTIL          |
| pops           | PROG             |
| portinfo       | XBERT            |
| position       | DRAM             |
| position       | TAB              |
| posrqn         | DASIM            |
| posrsn         | DASIM            |
| postswact      | BCSUPDATE        |
| precheck       | BCSUPDATE        |
| preswact       | BCSUPDATE        |
| prev           | TAB              |
| previous       | XBERT            |
| print          | SYS              |
| printmap       | PROG             |
| printtrack     | MTXTRACK         |
| privclas       | PROG             |
| profile        | SYS              |
| prompt         | LOADMGMT         |
| prompting      | SWUPGRADE        |
| promptme       | QCALL            |



**Table B-1 Command/directory cross-reference table (Sheet 30 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| pt             | PROG             |
| pt             | PT               |
| pte            | TAB              |
| ptquit         | PT               |
| ptime          | PT               |
| putpof         | TAB              |
| pvnacg         | PROG             |
| q              | ACDSHOW          |
| q              | C7MON            |
| q              | DASIM            |
| q              | ISIGMON          |
| q              | MTXTRACK         |
| q              | PATCHER          |
| q              | SCPEDDI          |
| q              | SOC              |
| qbb            | PROG             |
| qbclid         | PROG             |
| qbert          | PROG             |
| qbnv           | PROG             |
| qcall          | PROG             |
| qconn          | CI               |
| qcopyaft       | PROG             |
| qcounts        | PROG             |
| qcpugno        | PROG             |
| qc7mon         | C7MON            |
| qdch           | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 31 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| qdna           | PROG             |
| qdnsu          | PROG             |
| qha            | PROG             |
| qhasu          | PROG             |
| qhold          | LMCUT            |
| qhu            | PROG             |
| qild           | PROG             |
| qlenwrk        | PROG             |
| qload          | PROG             |
| qloop          | PROG             |
| qlspao         | PROG             |
| qlspaomdc      | PROG             |
| qphi           | PROG             |
| qport          | PNPROCI          |
| qprio          | PROG             |
| qsconn         | PROG             |
| qscugno        | PROG             |
| qsrdbr         | PROG             |
| qsrdbrfr       | PROG             |
| qtopspas       | PROG             |
| query          | AUTOPATCH        |
| query          | CUTOVER          |
| query          | EINONP           |
| query          | FOOTPRT          |
| query          | MPCD746          |
| query          | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 32 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| query ports    | XBERT            |
| queryaft       | AFTCI            |
| querycli       | TFAN             |
| querycnt       | SRAMCNT          |
| querycputhresh | AMREPCI          |
| querymemlims   | CMMNT/CMMEM      |
| querypld       | PROG             |
| queryrcc       | ESATOOLS         |
| queryrdt       | ESATOOLS         |
| queryreg       | TFAN             |
| querysnp       | SRAMCNT          |
| queryxfer      | PROG             |
| queue          | CLOG             |
| quit           | ADT              |
| quit           | ABBT             |
| quit           | ACDMR            |
| quit           | ACDPOOL          |
| quit           | ACDRTDIS         |
| quit           | ACDSHOW          |
| quit           | AFRECMAN         |
| quit           | AFTCI            |
| quit           | AMADUMP          |
| quit           | AMREPCI          |
| quit           | AUTOPATCH        |
| quit           | AUTOTABAUDIT     |
| quit           | BCSUPDATE        |

**Table B-1 Command/directory cross-reference table (Sheet 33 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| quit           | C7MON            |
| quit           | C7TUTRFC         |
| quit           | C7TU             |
| quit           | C7TUDTC          |
| quit           | C7TULINK         |
| quit           | C7TUTRFC         |
| quit           | CIN (MONLCC)     |
| quit           | CLOG             |
| quit           | CPSTATUS         |
| quit           | CUTOVER          |
| quit           | DBUT             |
| quit           | DCRUTIL          |
| quit           | DCTTOOL          |
| quit           | DEFSVCCI         |
| quit           | DISKADM          |
| quit           | DISKUT           |
| quit           | DMSMON           |
| quit           | DNSCRNCI         |
| quit           | DRAM             |
| quit           | DSINWT           |
| quit           | DSKALLOC         |
| quit           | DSKUT            |
| quit           | DSMCCS           |
| quit           | DSMTP            |
| quit           | EDIT             |
| quit           | EICERT           |

**Table B-1 Command/directory cross-reference table (Sheet 34 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| quit           | EICTS            |
| quit           | EINONP           |
| quit           | ENETFAB          |
| quit           | ENRETRO          |
| quit           | ESATOOLS         |
| quit           | FM               |
| quit           | FOOTPRT          |
| quit           | LMCUT            |
| quit           | LNKUTIL          |
| quit           | LOADMGMT         |
| quit           | LOGUTIL          |
| quit           | MAKERES          |
| quit           | MASSTC           |
| quit           | MONMPC           |
| quit           | MTXTRACK         |
| quit           | NETFAB           |
| quit           | NETMAN           |
| quit           | NMP              |
| quit           | OCCTS            |
| quit           | PATCHER          |
| quit           | PMUPGRADE        |
| quit           | PNPROCI          |
| quit           | PT               |
| quit           | QCALL            |
| quit           | QVIEW            |
| quit           | RASL             |

**Table B-1 Command/directory cross-reference table (Sheet 35 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| quit           | REG              |
| quit           | SCPCBD           |
| quit           | SCPDBREQ         |
| quit           | SCPEDDI          |
| quit           | SCPEHPET         |
| quit           | SERVORD          |
| quit           | SHADOWUT         |
| quit           | SIGMON           |
| quit           | SIGRTU           |
| quit           | SLU_CIDIR        |
| quit           | SMDILNK          |
| quit           | SMDRLNK          |
| quit           | SNPINGCI         |
| quit           | SOC              |
| quit           | SPMS             |
| quit           | SRAMCI           |
| quit           | SSAC             |
| quit           | SWACTCI          |
| quit           | SWUPGRADE        |
| quit           | TAB              |
| quit           | TABAUDIT         |
| quit           | TCBCI            |
| quit           | TRMSDBQ          |
| quit           | TFAN             |
| quit           | TQMIST           |
| quit           | VIP              |

**Table B-1 Command/directory cross-reference table (Sheet 36 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| quit           | XBERT            |
| quit           | XPMLFP           |
| quote          | SYS              |
| qvep           | PROG             |
| qview          | PROG             |
| qwucr          | PROG             |
| qxfer          | HBSMTD           |
| qxnet          | PROG             |
| range          | TAB              |
| rasl           | PROG             |
| raslclose      | RASL             |
| raslstart      | RASL             |
| raslstop       | RASL             |
| rculen         | PROG             |
| read           | REG              |
| read           | SYS              |
| readpx         | REG              |
| readreset      | REG              |
| readresetpx    | REG              |
| readresetvfg   | REG              |
| readvfg        | REG              |
| reassign       | LOADMGMT         |
| rebootsdm      | SDM              |
| reclaim        | PATCHER          |
| record         | DRAM             |
| reg            | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 37 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| reinit         | DSKALLOC         |
| reinitvol      | DISKADM          |
| relocate       | SRAMCI           |
| remlogin       | PROG             |
| remlogout      | PROG             |
| remove         | C7TUDTC          |
| remove         | C7TULINK         |
| remove         | DEFSVCCI         |
| remove         | PATCHER          |
| remove         | SOC              |
| remove         | SRAMCI           |
| remove         | SWUPGRADE        |
| renamefl       | DISKUT           |
| renamefl       | DSKUT            |
| renumber       | LOGUTIL          |
| repack         | SRAMCI           |
| repeat         | SYS              |
| replace        | TAB              |
| report         | AUTOTABAUDIT     |
| report         | C7TUTRFC         |
| report         | FOOTPRT          |
| report         | TABAUDIT         |
| reqdn          | DASIM            |
| reroute        | LOGUTIL          |
| res            | SERVORD          |
| resconv        | PROG             |



**Table B-1 Command/directory cross-reference table (Sheet 38 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| reset          | DMSMON           |
| reset          | BCSUPDATE        |
| reset          | C7TUTRFC         |
| reset          | CLOG             |
| reset          | FOOTPRT          |
| reset          | LOGUTIL          |
| reset          | SIGMON           |
| reset          | SWUPGRADE        |
| reset          | XBERT            |
| resethwm       | CPPOOL           |
| resetovr       | AFTCI            |
| resetpft       | AFTCI            |
| resetroute     | LOGUTIL          |
| resgrp         | SERVORD          |
| resource       | DASIM            |
| rest           | QCALL            |
| restab         | PROG             |
| restart        | SYS              |
| restartbase    | SYS              |
| restartinfo    | DMSMON           |
| restartswact   | SWACTCI          |
| restore        | C7TUDTC          |
| restore        | C7TULINK         |
| restore        | DISKUT           |
| restore        | VIP              |
| restoredb      | DBUT             |

**Table B-1 Command/directory cross-reference table (Sheet 39 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| restoreexecs   | SWACTCI          |
| restrict       | VIP              |
| resume         | EINONP           |
| resume         | ENETFAB          |
| resume         | LOGUTIL          |
| resume         | NETFAB           |
| resume         | SWUPGRADE        |
| resumedev      | LOGUTIL          |
| resumepm       | SWACTCI          |
| retrieve       | SCPEHPET         |
| retroinit      | ENRETRO          |
| return         | TAB              |
| revive         | PROG             |
| revxlvcr       | PROG             |
| rextest        | PROG             |
| rfmap          | MTXTRACK         |
| rfmtdisp       | PROG             |
| rfmtinit       | PROG             |
| rfpdata        | DASIM            |
| rindex         | SYS              |
| rlcr           | PROG             |
| rlsco          | LMCUT            |
| rlshold        | LMCUT            |
| rsa            | ADT              |
| rst            | DASIM            |
| rst            | TQMIST           |

**Table B-1 Command/directory cross-reference table (Sheet 40 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| rtdstat        | ACDRTDIS         |
| runstep        | BCSUPDATE        |
| runstep        | SWUPGRADE        |
| s              | ISIGMON          |
| sa             | ADT              |
| save           | EDIT             |
| save           | MASSTC           |
| savemap        | PROG             |
| scencci        | DASIM            |
| scenibm        | DASIM            |
| schedule       | AUTOPATCH        |
| scimon         | PROG             |
| scpcdb         | PROG             |
| scpclose       | SCPDBREQ         |
| scpdbreq       | PROG             |
| scpeddci       | PROG             |
| scpehpet       | PROG             |
| scpget         | SCPDBREQ         |
| scpopen        | SCPDBREQ         |
| scpput         | SCPDBREQ         |
| scpread        | SCPDBREQ         |
| scpreqid       | SCPDBREQ         |
| scpresp        | SCPDBREQ         |
| scpset         | SCPDBREQ         |
| scpsmrreq      | SCPDBREQ         |
| scpsmureq      | SCPDBREQ         |

**Table B-1 Command/directory cross-reference table (Sheet 41 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| scrap          | MASSTC           |
| sdmrlogin      | PROG             |
| sdna           | SERVORD          |
| search         | FINDATTRS        |
| seiquery       | PROG             |
| sel            | TQMIST           |
| select         | C7TULINK         |
| select         | SOC              |
| select         | SIGMON           |
| send           | ACDMR            |
| send           | ACDRTDIS         |
| send           | C7TULINK         |
| send           | SYS              |
| sendsmdr       | SMDRLNK          |
| servnum        | DASIM            |
| servord        | PROG             |
| set            | PATCHER          |
| set            | PMUPGRADE        |
| set            | SPMS             |
| set            | SWUPGRADE        |
| set            | TCBI             |
| setaft         | AFTCI            |
| setbanner      | PROG             |
| setboot        | DSKUT            |
| setbootfl      | DISKUT           |
| setdate        | SYS              |

**Table B-1 Command/directory cross-reference table (Sheet 42 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| setdbdev       | OMPRDUMP         |
| setencp        | ENRETRO          |
| setlink        | DASIM            |
| setnode        | DBUT             |
| setnode        | SHADOWUT         |
| setovr         | AFTCI            |
| setrcc         | ESATOOLS         |
| setrep         | SPMS             |
| settcidid      | TCBCI            |
| settime        | SYS              |
| setup          | C7TUTRFC         |
| setup          | DEFSVCCI         |
| shadowut       | PROG             |
| shadowut       | SHADOWUT         |
| sherlock       | PROG             |
| show           | ABBT             |
| show           | QCALL            |
| show           | QVIEW            |
| show           | SYS              |
| show           | TCBCI            |
| show           | TQMIST           |
| showboot       | DSKUT            |
| showfl         | DSKUT            |
| shownode       | SCPEHPET         |
| showrasl       | RASL             |
| showrec        | SCPEHPET         |

**Table B-1 Command/directory cross-reference table (Sheet 43 of 50)**

| <b>Command</b>   | <b>Directory</b> |
|------------------|------------------|
| showret          | SCPEHPET         |
| showusers        | PROG             |
| showuses         | PROG             |
| showvol          | DSKUT            |
| showxla          | PNPROCI          |
| sia              | ADT              |
| sigmon           | PROG             |
| sigtu            | PROG             |
| sim              | DASIM            |
| sitload          | DASIM            |
| sleep            | SYS              |
| slu              | PROG             |
| sluadd           | SLU_CIDIR        |
| slu_deinstall    | SLU_CIDIR        |
| sludel           | SLU_CIDIR        |
| sludump          | SLU_CIDIR        |
| slufindi         | SLU_CIDIR        |
| slufindo         | SLU_CIDIR        |
| slu_install      | SLU_CIDIR        |
| slu_linstall     | SLU_CIDIR        |
| sluset           | SLU_CIDIR        |
| slu_table_status | SLU_CIDIR        |
| smdidisp         | PROG             |
| smdistat         | SMDILNK          |
| smdilnk          | PROG             |
| smdrlnk          | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 44 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| smdrstat       | SMDRLNK          |
| snpingci       | PROG             |
| socdebug       | SCPEHPET         |
| sortnode       | SCPEHPET         |
| sortorigin     | SCPEHPET         |
| spa            | ADT              |
| spms           | PROG             |
| sramci         | PROG             |
| srdbrq         | PROG             |
| srdbupd        | PROG             |
| ssa            | ADT              |
| ssac           | PROG             |
| ssr            | PROG             |
| sta            | ADT              |
| start          | ABBT             |
| start          | AUTOPATCH        |
| start          | C7MON            |
| start          | C7TUTRFC         |
| start          | ENETFAB          |
| start          | LOGUTIL          |
| start          | MTXTRACK         |
| start          | NETFAB           |
| start          | PMUPGRADE        |
| start          | QCALL            |
| start          | QVIEW            |
| start          | SIGMON           |

**Table B-1 Command/directory cross-reference table (Sheet 45 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| start          | SWUPGRADE        |
| start          | TCBCI            |
| start          | XPMLFP           |
| startaft       | AFTCI            |
| startdev       | LOGUTIL          |
| startmember    | SHADOWUT         |
| startmsgs      | MONMPC           |
| startshadow    | SHADOWUT         |
| static         | CPPOOL           |
| status         | AUTOTABAUDIT     |
| status         | ACDPOOL          |
| status         | ACDSHOW          |
| status         | BCSUPDATE        |
| status         | C7TUDTC          |
| status         | C7TULINK         |
| status         | C7TUTRFC         |
| status         | CLOG             |
| status         | ENETFAB          |
| status         | ENRETRO          |
| status         | MASSTC           |
| status         | MTXTRACK         |
| status         | NETFAB           |
| status         | PATCHER          |
| status         | SIGMON           |
| status         | SRAMCI           |
| status         | SWACTCI          |



**Table B-1 Command/directory cross-reference table (Sheet 46 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| status         | SWUPGRADE        |
| status         | TABAUDIT         |
| status         | TCBCI            |
| status         | VIP              |
| status         | XPMLFP           |
| statuscheck    | SWACTCI          |
| stop           | ABBT             |
| stop           | ACDMR            |
| stop           | C7MON            |
| stop           | C7TUTRFC         |
| stop           | ENETFAB          |
| stop           | LOGUTIL          |
| stop           | MTXTRACK         |
| stop           | NETFAB           |
| stop           | SIGMON           |
| stop           | TCBCI            |
| stop           | XBERT            |
| stopaft        | AFTCI            |
| stopdev        | LOGUTIL          |
| stopdump       | PROG             |
| stopecho       | SERVORD          |
| stopmember     | SHADOWUT         |
| stopmsgs       | MONMPC           |
| stopshadow     | SHADOWUT         |
| stopsmldr      | SMDRLNK          |
| store          | PROG             |

**Table B-1 Command/directory cross-reference table (Sheet 47 of 50)**

| <b>Command</b>   | <b>Directory</b> |
|------------------|------------------|
| subpools         | ACDPOOL          |
| subtable         | TAB              |
| sum              | PROG             |
| summary          | QVIEW            |
| supervisor       | ACDSHOW          |
| suppress         | LOGUTIL          |
| sus              | SERVORD          |
| susgrp           | SERVORD          |
| suspend          | ENETFAB          |
| suspend          | NETFAB           |
| swactci          | BCSUPDATE        |
| swap             | SERVORD          |
| switch           | DCRUTIL          |
| swnode           | PROG             |
| swupgrade        | SYS              |
| swupgrade ready  | SYS              |
| swupgrade cmmock | SYS              |
| tabentry         | ACDSHOW          |
| table            | PROG             |
| tape             | SYS              |
| tapeconfirm      | SYS              |
| tcpci            | TCBCI            |
| tcpclear         | TCBCI            |
| tcmmon           | PROG             |
| tcmmon           | AUTOTABAUDIT     |
| testbook         | DCTTOOL          |

**Table B-1 Command/directory cross-reference table (Sheet 48 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| testoff        | CUTOVER          |
| teston         | CUTOVER          |
| tfan           | PROG             |
| threshold      | ACDSHOW          |
| threshold      | LOGUTIL          |
| throure        | ACDSHOW          |
| time           | QCALL            |
| time           | SYS              |
| timeframe      | AUTOTABAUDIT     |
| timereset      | LOGUTIL          |
| top            | EDIT             |
| top            | TAB              |
| topspw         | PROG             |
| totable        | QVIEW            |
| tqcldnam       | DASIM            |
| tqmist         | PROG             |
| trace          | DASIM            |
| trace          | TQMIST           |
| traceco        | QVIEW            |
| tracect4q      | QVIEW            |
| track          | MTXTRACK         |
| transfer       | AFRECMAN         |
| translate      | DSINWT           |
| trnsI          | FOOTPRT          |
| tsndmp         | PROG             |
| tsreprep       | TFAN             |

**Table B-1 Command/directory cross-reference table (Sheet 49 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| tsreptsno      | TFAN             |
| tsstrnsf       | DSMTP            |
| type           | EDIT             |
| type           | LOGUTIL          |
| unlock         | FOOTPRF          |
| unpermit       | SYS              |
| unsel          | TQMIST           |
| unsel          | PATCHER          |
| up             | EDIT             |
| up             | TAB              |
| updac          | CLOCK            |
| updatr         | DNSCRNCI         |
| updvsnpa       | PROG             |
| update         | DSKALLOC         |
| use            | QCALL            |
| use            | QVIEW            |
| users          | TCBCI            |
| utilize        | PROG             |
| validate       | SOC              |
| validate       | TRMSDBQ          |
| validaudio     | ACDSHOW          |
| validroutes    | ACDSHOW          |
| vendor         | DASIM            |
| verbose        | C7TUTRFC         |
| verify         | EDIT             |
| verify         | TAB              |

**Table B-1 Command/directory cross-reference table (Sheet 50 of 50)**

| <b>Command</b> | <b>Directory</b> |
|----------------|------------------|
| view           | SSAC             |
| vip            | PROG             |
| vpn            | PROG             |
| whats          | PROG             |
| wideband       | PROG             |
| xbert          | PROG             |
| xfrfrom        | SWUPGRADE        |
| xfronly        | SWUPGRADE        |
| xplist         | PATCHER          |
| xpmlfp         | PROG             |
| z              | ISIGMON          |
| zapdata        | MONMPC           |
| zapmtrs        | PROG             |
| zerosup        | OMPRDUMP         |

**Table B-2 Command/MAP level cross-reference table (Sheet 1 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| abortx         | XFER             |
| abtk           | CARD (ENET)      |
| abtk           | CM               |
| abtk           | DCH              |
| abtk           | DEVICES (CFI)    |
| abtk           | DEVICES (FP)     |
| abtk           | DEVICES (LMX)    |
| abtk           | DEVICES (PSP)    |
| abtk           | DTC              |

**Table B-2 Command/MAP level cross-reference table (Sheet 2 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| abtk           | DTCI             |
| abtk           | FP               |
| abtk           | ICRM             |
| abtk           | LGC              |
| abtk           | LGCI             |
| abtk           | LTC              |
| abtk           | MATRIX           |
| abtk           | MP               |
| abtk           | MSB6             |
| abtk           | MSB7             |
| abtk           | NIU              |
| abtk           | OPMPES           |
| abtk           | RCC              |
| abtk           | RCCI             |
| abtk           | SHELF            |
| abtk           | SMS              |
| abtk           | SMU              |
| abtk           | SRUPES           |
| abtk           | SYSTEM           |
| abtk           | TMS              |
| abtkmcr        | PLANE            |
| abtdly         | C7LKSET          |
| ack            | SA               |
| act            | C7LKSET          |
| act            | LINKSET          |
| act            | SBS              |

Table B-2 Command/MAP level cross-reference table (Sheet 3 of 81)

| Command | MAP level   |
|---------|-------------|
| actfsa  | SBSSEL      |
| actlap  | DPNSS       |
| addcos  | LineSel     |
| addcust | LineSel     |
| adddwr  | LineSel     |
| addofc  | LineSel     |
| addsite | LineSel     |
| adjust  | Clock (MS)  |
| aimckt  | TTP         |
| alarm   | CMMnt       |
| alarm   | ENET        |
| align   | Memory      |
| alloc   | DDU         |
| almstat | LTP         |
| alm     | LTPISDN     |
| alt     | LNS         |
| altinfo | ALT         |
| altpath | NETPATH     |
| alttest | CARD (ENET) |
| alttest | NETPATH     |
| alttype | NETPATH     |
| analyze | INTEG       |
| analyze | NETINTEG    |
| ans     | SA          |
| aosssel | SASelect    |
| apply   | AutoCtrl    |

**Table B-2 Command/MAP level cross-reference table (Sheet 4 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| apply          | CodeCtrl         |
| apply          | GrpCtrl          |
| apply          | IntCCtrl         |
| apply          | RteCtrl          |
| att            | TRKS             |
| attcon         | LineSel          |
| attcon         | SASelect         |
| audit          | DIRP             |
| audit          | DRM              |
| audit          | INTEG            |
| audit          | MTRSYS           |
| audit          | OPMPES           |
| audit          | SRUPES           |
| auditlink      | DPNSS            |
| autocnv        | TRKCONV          |
| autoctrl       | NWM              |
| autold         | CMMnt            |
| bal            | ALT              |
| bal            | LTPMAN           |
| balnet         | LTPLTA           |
| bchcon         | LTPISDN          |
| bert           | DATA             |
| bert           | ENET             |
| bert           | LTPDATA          |
| bert(isdn)     | LTPDATA          |
| berttime       | DATA             |



**Table B-2 Command/MAP level cross-reference table (Sheet 5 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| berttime       | LTPDATA          |
| bpvo           | LTPDATA          |
| billing        | MTRSYS           |
| bsy            | APUX             |
| bsy            | Card (MS)        |
| bsy            | CARD (ENET)      |
| bsy            | Chain            |
| bsy            | CONS             |
| bsy            | C6TTP            |
| bsy            | C7LKSET          |
| bsy            | C7TTP            |
| bsy            | DATA             |
| bsy            | DCH              |
| bsy            | DDU              |
| bsy            | DEVICES (CFI)    |
| bsy            | DEVICES (FP)     |
| bsy            | DEVICES (LMX)    |
| bsy            | DEVICES (PSP)    |
| bsy            | DPNSS            |
| bsy            | DRAM             |
| bsy            | DTC              |
| bsy            | DTCI             |
| bsy            | EIU              |
| bsy            | ELIU             |
| bsy            | ESA              |
| bsy            | ESTU             |

**Table B-2 Command/MAP level cross-reference table (Sheet 6 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| bsy            | EXND             |
| bsy            | FBUS             |
| bsy            | FP               |
| bsy            | FRIU             |
| bsy            | IBNCON           |
| bsy            | ICRM             |
| bsy            | IDT              |
| bsy            | ILD              |
| bsy            | IOC              |
| bsy            | IPML             |
| bsy            | IRLINK           |
| bsy            | ISG              |
| bsy            | LAYER            |
| bsy            | LCM              |
| bsy            | LCME             |
| bsy            | LCMI             |
| bsy            | LCOM             |
| bsy            | LGC              |
| bsy            | LGCI             |
| bsy            | LIM              |
| bsy            | LINKSET          |
| bsy            | LIU7             |
| bsy            | LTC              |
| bsy            | LTP              |
| bsy(isdn)      | LTP              |
| bsy            | MANUAL           |

Table B-2 Command/MAP level cross-reference table (Sheet 7 of 81)

| Command | MAP level      |
|---------|----------------|
| bsy     | MATRIX         |
| bsy     | MC             |
| bsy     | MONITOR        |
| bsy     | MP             |
| bsy     | MPC            |
| bsy     | MS             |
| bsy     | MSB6           |
| bsy     | MSB7           |
| bsy     | MTD            |
| bsy     | MTM            |
| bsy     | NET            |
| bsy     | NETJCTRS       |
| bsy     | NETLINKS       |
| bsy     | NETXPTS        |
| bsy     | NIU            |
| bsy     | OAU            |
| bsy     | OPMPES         |
| bsy     | PLANE          |
| bsy     | PLATFORM (SDM) |
| bsy     | PMC            |
| bsy     | POST           |
| bsy     | POSTDEV        |
| bsy     | PRADCH         |
| bsy     | PVC            |
| bsy     | RBS            |
| bsy     | RCC            |

**Table B-2 Command/MAP level cross-reference table (Sheet 8 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| bsy            | RCCI             |
| bsy            | SCCPLOC          |
| bsy            | SCCPRPC          |
| bsy            | SCCPRSS          |
| bsy            | SDM              |
| bsy            | SEAS             |
| bsy            | Shelf            |
| bsy            | SHELF            |
| bsy            | SLM              |
| bsy            | SMS              |
| bsy            | SMU              |
| bsy            | SPM              |
| bsy            | SRUPES           |
| bsy            | STC              |
| bsy            | SYSTEM           |
| bsy            | TMS              |
| bsy            | TPC              |
| bsy            | TRKCONV          |
| bsy            | TTP              |
| bsy            | XLIU             |
| bsy            | X75TTP           |
| bsychn         | Shelf            |
| bsylinks       | NIU              |
| bsyms          | Card (MS)        |
| bsyms          | MS               |
| bterm          | DATA             |

**Table B-2 Command/MAP level cross-reference table (Sheet 9 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| buffsel        | NETINTEG         |
| bufpath        | NETPATH          |
| busy           | IBNCON           |
| busy           | SA               |
| callset        | BERP             |
| calltrf        | MANUAL           |
| calltrf        | TTP              |
| cap            | LTPLTA           |
| card           | Card (MS)        |
| card           | CARD (ENET)      |
| card           | Chain            |
| card           | Clock (MS)       |
| card           | IOC              |
| card           | Shelf            |
| card           | SHELF            |
| cardlist       | NETPATH          |
| carrier        | TRKS             |
| ccbcapture     | INTEG            |
| ccis6          | CCS              |
| ccs7           | CCS              |
| cdr            | IOD              |
| cdsrch         | IOD              |
| chain          | Card (MS)        |
| chain          | Chain            |
| chain          | Clock (MS)       |
| chain          | Shelf            |

**Table B-2 Command/MAP level cross-reference table (Sheet 10 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| charge         | OPMPES           |
| charge         | SRUPES           |
| check          | BERP             |
| checkinv       | CM               |
| chklnk         | NET              |
| cic            | C7TTP            |
| ckt            | TTP              |
| cktinfo        | TTP              |
| cktinfo        | X75TTP           |
| cktloc         | LTP              |
| cktloc         | TTP              |
| cktloc         | X75TTP           |
| cktmon         | MONITOR          |
| ckttst         | ALT              |
| ckttst         | LTPMAN           |
| claim          | Memory           |
| claim          | PLANE            |
| cleanup        | DIRP             |
| clear          | BERT             |
| clear          | C7MSUVER         |
| clear          | IBNCON           |
| clear          | INTEG            |
| clear          | NETPATH          |
| clear          | NOP              |
| clk            | DDP              |
| clkstat        | NET              |

**Table B-2 Command/MAP level cross-reference table (Sheet 11 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| clock          | Card (MS)        |
| clock          | Chain            |
| clock          | MC               |
| clock          | MS               |
| clock          | Shelf            |
| close          | DIRP             |
| clr            | DRAM             |
| clr            | MTM              |
| clr            | OAU              |
| clralarm       | CM               |
| clralm         | LNSTRBL          |
| clralm         | TRKSTRBL         |
| clrbuf         | LNSTRBL          |
| clrbuf         | TRKSTRBL         |
| clrbuff        | DDU              |
| clrcnts        | MC               |
| clrcnts        | PMC              |
| clrfcnt        | DDU              |
| clrfw          | SLM              |
| cmmnt          | CM               |
| cntrs          | Memory (CM)      |
| codectl        | NWM              |
| coin           | LTPLTA           |
| coldst         | LTPISDN          |
| commstat       | SBSSEL           |
| config.        | Memory           |

**Table B-2 Command/MAP level cross-reference table (Sheet 12 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| config         | PLANE            |
| connect        | LTPDATA          |
| connect        | PRADCH           |
| connlog        | ENET             |
| cont           | IDT              |
| cont           | ISG              |
| cont           | PRADCH           |
| conv           | TRKCONV          |
| copy           | DRM              |
| correct        | SAEdit           |
| cpos           | MONITOR          |
| cpstat         | PM               |
| cpu            | ENET             |
| cpypath        | NETPATH          |
| create_ttp     | TTP              |
| creatset       | LNSTRBL          |
| creatset       | TRKSTRBL         |
| cvbsy          | TRKCONV          |
| cvcot          | TRKCONV          |
| cvnext         | TRKCONV          |
| cvpost         | TRKCONV          |
| cvrts          | TRKCONV          |
| cvtest         | C7TTP            |
| c6state        | C6TTP            |
| c7bert         | C7LKSET          |
| c7lkset        | CCS7             |



Table B-2 Command/MAP level cross-reference table (Sheet 13 of 81)

| Command     | MAP level |
|-------------|-----------|
| c7msuver    | CCS7      |
| c7rteset    | CCS7      |
| dat         | DRM       |
| data_screen | LTP       |
| dav_screen  | LTP       |
| dch         | LGCI      |
| dch         | RCCI      |
| dch         | TMS       |
| dchcon      | LTPISDN   |
| dchcon      | LTPMAN    |
| dcrmoeh     | NWM       |
| dcrsel      | NWM       |
| dcsig       | LTPISDN   |
| dctltp      | LTP       |
| dctttp      | TTP       |
| dddin       | SASelect  |
| ddo         | SASelect  |
| deact       | C7LKSET   |
| deact       | LINKSET   |
| deact       | SBS       |
| deactfsa    | SBSSEL    |
| deactlap    | DPNSS     |
| define      | ALTBAL    |
| define      | ALTCKTTST |
| define      | ALTDIAG   |
| define      | ALTLIT    |

**Table B-2 Command/MAP level cross-reference table (Sheet 14 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| define         | ALTSDIAG         |
| define         | BERP             |
| define         | BERT             |
| define         | XFER             |
| defman         | ALTBAL           |
| defman         | ALTCKTTST        |
| defman         | ALTDIAG          |
| defman         | ATLIT            |
| defman         | ALTSDIAG         |
| defpath        | NETPATH          |
| defschd        | ALTBAL           |
| defschd        | ALTCKTTST        |
| defschd        | ALTDIAG          |
| defschd        | ATLIT            |
| defschd        | ALTSDIAG         |
| deftime        | BERP             |
| deftime        | DCTLTP           |
| deftime        | DCTTTP           |
| deftest        | NETPATH          |
| delays         | PERFORM          |
| delcos         | LineSel          |
| delcust        | LineSel          |
| deldwr         | LineSel          |
| delete         | DCTLTP           |
| delete         | DCTTTP           |
| delete_ttp     | TTP              |

**Table B-2 Command/MAP level cross-reference table (Sheet 15 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| deload         | CARD (ENET)      |
| deload         | ENET             |
| deload         | MATRIX           |
| deload         | SHELF            |
| deload         | SYSTEM           |
| delofc         | LineSel          |
| delman         | ATT              |
| demount        | DRM              |
| delsite        | LineSel          |
| det            | LTPISDN          |
| detail         | POST             |
| devices        | FP               |
| devices        | NIU              |
| devtype        | IOC              |
| dgttst         | LTPLTA           |
| diag           | ALT              |
| diag           | LTP              |
| diag(isdn)     | LTP              |
| diagnose       | IBNCON           |
| dial           | DCTLTP           |
| dial           | DCTTTP           |
| dirasst        | AOSSsel          |
| dirp           | IOD              |
| disable        | AutoCtrl         |
| disable        | FMT              |
| disalm         | CCS7             |

**Table B-2 Command/MAP level cross-reference table (Sheet 16 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| disalm         | CCIS6            |
| disalm         | SCP              |
| disalm         | STAT TKGRP       |
| disalm         | STAT TRKS        |
| disp           | APUX             |
| disp           | CARD (ENET)      |
| disp           | CARRIER          |
| disp           | DCH              |
| disp           | DEVICES (CFI)    |
| disp           | DEVICES (LMX)    |
| disp           | DEVICES (PSP)    |
| disp           | DISPLAY          |
| disp           | DRAM             |
| disp           | DTC              |
| disp           | DTCI             |
| disp           | EIU              |
| disp           | ELIU             |
| disp           | ENET             |
| disp           | ESA              |
| disp           | Ext              |
| disp           | ICRM             |
| disp           | IDT              |
| disp           | LCM              |
| disp           | LCME             |
| disp           | LCMI             |
| disp           | LCOM             |

**Table B-2 Command/MAP level cross-reference table (Sheet 17 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| disp           | LGCI             |
| disp           | LGC              |
| disp           | LIM              |
| disp           | LNSTRBL          |
| disp           | LIU7             |
| disp           | LTC              |
| disp           | MATRIX           |
| disp           | MP               |
| disp           | MSB6             |
| disp           | MSB7             |
| disp           | MTM              |
| disp           | NET              |
| disp           | NETINTEG         |
| disp           | NETJCTRS         |
| disp           | NETLINKS         |
| disp           | NETPATH          |
| disp           | NETXPTS          |
| disp           | NIU              |
| disp           | OAU              |
| disp           | OPMPES           |
| disp           | PM               |
| disp           | POST             |
| disp           | RBS              |
| disp           | RCC              |
| disp           | RCCI             |
| disp           | SHELF            |

**Table B-2 Command/MAP level cross-reference table (Sheet 18 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| disp           | SMS              |
| disp           | SMU              |
| disp           | SPM              |
| disp           | SRUPES           |
| disp           | SYSTEM           |
| disp           | TstEquip         |
| disp           | TRKSTRBL         |
| disp           | TPC              |
| disp           | TMS              |
| disp           | XLIU             |
| dispcnts       | MC               |
| dispcnts       | PMC              |
| dispgrp        | STAT TKGRP       |
| display        | BERT             |
| display        | DCTLTP           |
| display        | DCTTTP           |
| display        | INTEG            |
| display        | NWM              |
| display        | SAEdit           |
| dispopt        | POST             |
| disptrk        | STAT TKGRP       |
| disptrk        | STAT TRKS        |
| dmnt           | DIRP             |
| dmnt           | XFER             |
| door           | OPMPES           |
| door           | SRUPES           |

**Table B-2 Command/MAP level cross-reference table (Sheet 19 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| downgrade      | ETS              |
| downld         | MPC              |
| downld         | IOM              |
| dpnss          | CCS              |
| dpp            | IOD              |
| dpsync         | Clock (MC)       |
| dpsync         | Clock (MS)       |
| dpsync         | CM               |
| dpsync         | CMMnt            |
| dpsync         | MC               |
| dpsync         | Memory           |
| dpsync         | PLANE            |
| dpsync         | PMC              |
| dpsync         | Port             |
| dpsynclk       | Clock (MS)       |
| dsimaint       | DPP              |
| dumpb          | SBS              |
| dumpb          | SBSSTAT          |
| ebsmsg         | LTP              |
| eiobkup        | SBSSTAT          |
| enable         | AutoCtrl         |
| enable         | FMT              |
| enclock        | ENET             |
| endcld         | SA               |
| endclg         | SA               |
| equip          | Ext              |

**Table B-2 Command/MAP level cross-reference table (Sheet 20 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| equip          | LTPDATA          |
| equip          | PRADCH           |
| errmap         | DPP              |
| exclct         | AOSSsel          |
| exclqst        | SASelect         |
| exclst         | SASelect         |
| exclto         | AOSSsel          |
| exclto         | SASelect         |
| e2alink        | CM               |
| fault          | MTD              |
| fbus           | LIM              |
| fcnt           | DDU              |
| filter         | INTEG            |
| filter         | NETINTEG         |
| findstate      | ENET             |
| fmt            | PM               |
| frls           | IBNCON           |
| frls           | LTP              |
| frls           | MONITOR          |
| frls           | MP               |
| frls           | TTP              |
| gwtrantst      | SCCPLOC          |
| gwtrantst      | SCCPRSS          |
| groupcmd       | C7TTP            |
| grpctrl        | NWM              |
| haltatt        | ATT              |



**Table B-2 Command/MAP level cross-reference table (Sheet 21 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| hcpygrp        | STAT TKGRP       |
| hcpytrk        | STAT TKGRP       |
| hcpytrk        | STAT TRKS        |
| help           | DCAP             |
| history        | OPMPES           |
| history        | SRUPES           |
| hold           | C6TTP            |
| hold           | C7TTP            |
| hold           | DATA             |
| hold           | DCTLTP           |
| hold           | DCTTTP           |
| hold           | LTP              |
| hold           | LTPDATA          |
| hold           | LTPISDN          |
| hold           | LTPLTA           |
| hold           | LTPMAN           |
| hold           | MANUAL           |
| hold           | MONITOR          |
| hold           | PRADCH           |
| hold           | TRKCONV          |
| hold           | TTP              |
| hold           | X75TTP           |
| hset           | MANUAL           |
| hset           | TTP              |
| ibntrk         | SASelect         |
| icrmlogs       | ICRM             |

**Table B-2 Command/MAP level cross-reference table (Sheet 22 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| idmtce         | DEVICES (CFI)    |
| idmtce         | DEVICES (LMX)    |
| idmtce         | DEVICES (PSP)    |
| idxmaint       | DPP              |
| lfsloop        | C7BERT           |
| ild            | LCM              |
| iloss          | LTPISDN          |
| image          | CMMNT            |
| image          | DTC              |
| image          | LGC              |
| image          | LTC              |
| image          | RCC              |
| image          | SMS              |
| image          | SMSR             |
| image          | SMU              |
| imp            | LTPISDN          |
| inclct         | AOSSsel          |
| inclqst        | SASelect         |
| inclst         | SASelect         |
| inclto         | AOSSsel          |
| inclto         | SASelect         |
| info           | DRM              |
| info           | EXND             |
| info           | NETPATH          |
| info           | SPM              |
| inh            | C7LKSET          |

Table B-2 Command/MAP level cross-reference table (Sheet 23 of 81)

| Command | MAP level  |
|---------|------------|
| inhibit | MTD        |
| inject  | DCTLTP     |
| inject  | DCTTTP     |
| injerr  | C7BERT     |
| insync  | CM         |
| intctrl | NWM        |
| integ   | ENET       |
| integ   | NET        |
| interms | MS         |
| intmess | C7MSUVER   |
| ioc     | IOD        |
| ipml    | PM         |
| irlink  | RCC        |
| irlink  | RCCI       |
| isg     | LGCI       |
| isg     | RCCI       |
| isg     | TMS        |
| isgact  | PERFORM    |
| ismd    | DCAP       |
| isncp   | DCAP       |
| item    | STAT TKGRP |
| jack    | LTPMAN     |
| jack    | MANUAL     |
| jack    | TTP        |
| jctr    | NET        |
| jctr    | NETJCTRS   |

**Table B-2 Command/MAP level cross-reference table (Sheet 24 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| kept           | XFER             |
| l2logctl       | LTPISDN          |
| layer          | CCIS6            |
| lco            | LTP              |
| lco(isdn)      | LTP              |
| ldpmall        | PM               |
| level          | LTP              |
| level          | TTP              |
| linesel        | SASelect         |
| linetst        | LCOM             |
| link           | CARD (ENET)      |
| links          | NET              |
| links          | NETLINKS         |
| linkset        | CCIS6            |
| linktest       | DPP              |
| list           | AutoCtrl         |
| list           | CodeCtrl         |
| list           | Ext              |
| list           | FMT              |
| list           | GrpCtrl          |
| list           | IntCCtrl         |
| list           | RteCtrl          |
| listalm        | LNSTRBL          |
| listalm        | TRKSTRBL         |
| listdev        | CONS             |
| listdev        | DDU              |

**Table B-2 Command/MAP level cross-reference table (Sheet 25 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| listdev        | DLC              |
| listdev        | IOC              |
| listdev        | IOD              |
| listdev        | MPC              |
| listdev        | MTD              |
| listman        | ATT              |
| listset        | APUX             |
| listset        | DTC              |
| listset        | DTCI             |
| listset        | EIU              |
| listset        | ELIU             |
| listset        | FRIU             |
| listset        | ICRM             |
| listset        | ILD              |
| listset        | LCM              |
| listset        | LCOM             |
| listset        | LGC              |
| listset        | LGCI             |
| listset        | LIM              |
| listset        | LIU7             |
| listset        | LTC              |
| listset        | MSB6             |
| listset        | MSB7             |
| listset        | NIU              |
| listset        | RBS              |
| listset        | RCC              |

**Table B-2 Command/MAP level cross-reference table (Sheet 26 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| listset        | RCCI             |
| listset        | SMS              |
| listset        | SMU              |
| listset        | TMS              |
| listset        | XLIU             |
| lit            | ALT              |
| litinfo        | ALTLIT           |
| Insmp          | LineSel          |
| Insmp          | SASelect         |
| Instrbl        | LNS              |
| Intst          | LTPLTA           |
| loadb          | OPMPES           |
| loadb          | SRUPES           |
| loadcd         | Card (MS)        |
| loadcd         | Chain            |
| loadcd         | Clock (MS)       |
| loadcd         | Shelf            |
| loaden         | SYSTEM           |
| loadenall      | SYSTEM           |
| loadfw         | PM               |
| loadfw         | TTP              |
| loadms         | Card (MS)        |
| loadms         | Chain            |
| loadms         | MS               |
| loadms         | Shelf            |
| loadnotest     | DTC              |

Table B-2 Command/MAP level cross-reference table (Sheet 27 of 81)

| Command    | MAP level |
|------------|-----------|
| loadnotest | MSB6      |
| loadnotest | MSB7      |
| loadnotest | LGC       |
| loadnotest | LGCI      |
| loadnotest | LTC       |
| loadnotest | RCC       |
| loadnotest | RCCI      |
| loadnotest | SMS       |
| loadnotest | SMU       |
| loadpm     | APUX      |
| loadpm     | DCH       |
| loadpm     | DRAM      |
| loadpm     | DTC       |
| loadpm     | DTCI      |
| loadpm     | EIU       |
| loadpm     | ELIU      |
| loadpm     | ESA       |
| loadpm     | FP        |
| loadpm     | FRIU      |
| loadpm     | ICRM      |
| loadpm     | ILD       |
| loadpm     | LCM       |
| loadpm     | LCME      |
| loadpm     | LCMI      |
| loadpm     | LCOM      |
| loadpm     | LGC       |

**Table B-2 Command/MAP level cross-reference table (Sheet 28 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| loadpm         | LGCI             |
| loadpm         | LIM              |
| loadpm         | LIU7             |
| loadpm         | LTC              |
| loadpm         | MSB6             |
| loadpm         | MSB7             |
| loadpm         | MTM              |
| loadpm         | NIU              |
| loadpm         | OAU              |
| loadpm         | RCC              |
| loadpm         | RCCI             |
| loadpm         | SMS              |
| loadpm         | SMU              |
| loadpm         | STC              |
| loadpm         | TMS              |
| loadpm         | XLIU             |
| loc            | NET              |
| loc            | NETXPTS          |
| locate         | CARD (ENET)      |
| locate         | Clock (MC)       |
| locate         | CM               |
| locate         | DLC              |
| locate         | ENET             |
| locate         | MATRIX           |
| locate         | MC               |
| locate         | Memory           |



**Table B-2 Command/MAP level cross-reference table (Sheet 29 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| locate         | PLATFORM (SDM)   |
| locate         | PMC              |
| locate         | Port             |
| locate         | SCCPLOC          |
| locate         | SDM              |
| locate         | SHELF            |
| locate         | SLM              |
| locate         | SYSTEM           |
| logformat      | ENET             |
| logmask        | MC               |
| logmask        | PMC              |
| logs           | INTEG            |
| loop           | FRIU             |
| loop           | POST             |
| loopbk         | BERP             |
| loopbk         | EIU              |
| loopbk         | IDT              |
| loopbk         | ISG              |
| loopbk         | LCOM             |
| loopbk         | LIU7             |
| loopbk         | LTPDATA          |
| loopbk         | PRADCH           |
| loopbk         | X75TTP           |
| loopbk(isdn)   | LTPDATA          |
| loss           | LTPMAN           |
| loss           | MANUAL           |

**Table B-2 Command/MAP level cross-reference table (Sheet 30 of 81)**

| <b>Command</b>   | <b>MAP level</b> |
|------------------|------------------|
| loss             | TTP              |
| lstband          | LAYER            |
| lstcli           | ATT              |
| lststop          | ATT              |
| lstwait          | ATT              |
| lsfact           | DPP              |
| lstdir           | DPP              |
| lta              | LTPLTA           |
| ltloopbk         | LTPISDN          |
| ltp              | LNS              |
| ltprsrc          | LTP              |
| ltp_aux_com      | LTP              |
| ltp_aux_gate_com | LTP              |
| l1blmalm         | LTPISDN          |
| l1thrsh          | LTPISDN          |
| manual           | TTP              |
| match            | Memory (CM)      |
| match            | PLANE            |
| matejam          | PLANE            |
| matrix           | CARD (ENET)      |
| matrix           | ENET             |
| matrix           | SHELF            |
| matrix           | SYSTEM           |
| mc               | CM               |
| mdn              | IOC              |
| meas             | OPMPES           |

**Table B-2 Command/MAP level cross-reference table (Sheet 31 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| meas           | SRUPES           |
| memory         | CM               |
| memory         | ENET             |
| mmsync         | CM               |
| mnt            | DIRP             |
| mode           | NETINTEG         |
| monconn        | AOSSsel          |
| monconn        | SASelect         |
| monitor        | DRM              |
| monitor        | TTP              |
| monlink        | MONITOR          |
| monlta         | LTPLTA           |
| monpost        | MONITOR          |
| monrel         | AOSSsel          |
| monrel         | SASelect         |
| montalk        | MONITOR          |
| mount          | DRM              |
| mstore         | MTRSYS           |
| mtcchk         | CM               |
| mtcchk         | CMMnt            |
| mtcchk         | Memory           |
| mtcchk         | MS               |
| next           | APUX             |
| next           | Card (MS)        |
| next           | C6TTP            |
| next           | C7LKSET          |

**Table B-2 Command/MAP level cross-reference table (Sheet 32 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| next           | C7RteSet         |
| next           | C7TTP            |
| next           | DATA             |
| next           | DCH              |
| next           | DCTLTP           |
| next           | DCTTTP           |
| next           | DEVICES (CFI)    |
| next           | DEVICES (FP)     |
| next           | DISPLAY          |
| next           | DPNSS            |
| next           | DRAM             |
| next           | DTC              |
| next           | DTCI             |
| next           | EIU              |
| next           | ELIU             |
| next           | ESA              |
| next           | ESTU             |
| next           | FMT              |
| next           | FRIU             |
| next           | IBNCON           |
| next           | ICRM             |
| next           | IDT              |
| next           | ILD              |
| next           | IPML             |
| next           | ISG              |
| next           | LCM              |

Table B-2 Command/MAP level cross-reference table (Sheet 33 of 81)

| Command | MAP level |
|---------|-----------|
| next    | LCME      |
| next    | LCMI      |
| next    | LCOM      |
| next    | LGC       |
| next    | LGCI      |
| next    | LIM       |
| next    | LIU7      |
| next    | LTC       |
| next    | LTP       |
| next    | LTPDATA   |
| next    | LTPLTA    |
| next    | LTPISDN   |
| next    | LTPMAN    |
| next    | MANUAL    |
| next    | MONITOR   |
| next    | MP        |
| next    | MSB6      |
| next    | MSB7      |
| next    | MTM       |
| next    | NETPATH   |
| next    | NIU       |
| next    | OAU       |
| next    | OPMPES    |
| next    | PM        |
| next    | POST      |
| next    | PRADCH    |

**Table B-2 Command/MAP level cross-reference table (Sheet 34 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| next           | PVC              |
| next           | RBS              |
| next           | RCC              |
| next           | RCCI             |
| next           | SCCPLOC          |
| next           | SCCPRSS          |
| next           | SMS              |
| next           | SMU              |
| next           | SPM              |
| next           | SRUPES           |
| next           | STC              |
| next           | TMS              |
| next           | TPC              |
| next           | TRKCONV          |
| next           | TTP              |
| next           | XLIU             |
| next           | X75TTP           |
| nextcall       | SA               |
| nextcall       | SAEdit           |
| nextdev        | POSTDEV          |
| nextgrp        | STAT TKGRP       |
| nextls         | C7LKSET          |
| nextpage       | SBSSTAT          |
| nextpage       | SBSSTRM          |
| nexttrk        | STAT TKGRP       |
| nexttrk        | STAT TRKS        |

Table B-2 Command/MAP level cross-reference table (Sheet 35 of 81)

| Command | MAP level     |
|---------|---------------|
| noise   | LTPMAN        |
| noise   | MANUAL        |
| noise   | TTP           |
| nop     | IOD           |
| nse     | LTPISDN       |
| nxtpage | NOP           |
| nx25ci  | IOD           |
| ocdl    | OCDL          |
| offl    | APUX          |
| offl    | Card (MS)     |
| offl    | CARD (ENET)   |
| offl    | Chain         |
| offl    | CONS          |
| offl    | C7LKSET       |
| offl    | DCH           |
| offl    | DDU           |
| offl    | DEVICES (CFI) |
| offl    | DEVICES (FP)  |
| offl    | DLC           |
| offl    | DPNSS         |
| offl    | DRAM          |
| offl    | DTC           |
| offl    | DTCI          |
| offl    | EIU           |
| offl    | ELIU          |
| offl    | ESA           |

**Table B-2 Command/MAP level cross-reference table (Sheet 36 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| offl           | ESTU             |
| offl           | EXND             |
| offl           | FBUS             |
| offl           | FP               |
| offl           | FRIU             |
| offl           | ICRM             |
| offl           | IDT              |
| offl           | ILD              |
| offl           | IOC              |
| offl           | IPML             |
| offl           | ISG              |
| offl           | LAYER            |
| offl           | LCM              |
| offl           | LCME             |
| offl           | LCMI             |
| offl           | LCOM             |
| offl           | LGC              |
| offl           | LGCI             |
| offl           | LIM              |
| offl           | LINKSET          |
| offl           | LIU7             |
| offl           | LTC              |
| offl           | MATRIX           |
| offl           | MPC              |
| offl           | MSB6             |
| offl           | MSB7             |



Table B-2 Command/MAP level cross-reference table (Sheet 37 of 81)

| Command | MAP level      |
|---------|----------------|
| offl    | MTD            |
| offl    | MTM            |
| offl    | NET            |
| offl    | NETJCTRS       |
| offl    | NIU            |
| offl    | OAU            |
| offl    | OPMPES         |
| offl    | PLATFORM (SDM) |
| offl    | POST           |
| offl    | POSTDEV        |
| offl    | PVC            |
| offl    | RBS            |
| offl    | RCC            |
| offl    | RCCI           |
| offl    | SCCPLOC        |
| offl    | SCCPRPC        |
| offl    | SCCPRSS        |
| offl    | SEAS           |
| offl    | Shelf          |
| offl    | SHELF          |
| offl    | SLM            |
| offl    | SMS            |
| offl    | SMU            |
| offl    | SPM            |
| offl    | SRUPES         |
| offl    | STC            |

**Table B-2 Command/MAP level cross-reference table (Sheet 38 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| offl           | SYSTEM           |
| offl           | TMS              |
| offl           | TPC              |
| offl           | XLIU             |
| offlchn        | Shelf            |
| oosremen       | SYSTEM           |
| op             | MANUAL           |
| op             | TTP              |
| openckt        | OPMPES           |
| openckt        | SRUPES           |
| opr            | SA               |
| orig           | LTPLTA           |
| othopr         | SA               |
| outasst        | SASelect         |
| output         | BERP             |
| override       | ALTBAL           |
| override       | ALTCKTTST        |
| override       | ALTDIAG          |
| override       | ALTLIT           |
| override       | ALTSDIAG         |
| pads           | TTP              |
| page           | AutoCtrl         |
| page           | CodeCtrl         |
| page           | GrpCtrl          |
| page           | IntCCtrl         |
| page           | NWM              |

**Table B-2 Command/MAP level cross-reference table (Sheet 39 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| page           | RteCtrl          |
| parmset        | BERP             |
| parms          | CPSTATUS         |
| patchxpm       | DTCI             |
| patchxpm       | TMS              |
| path           | NET              |
| pathtest       | ENET             |
| perform        | DTC              |
| perform        | DTCI             |
| perform        | LGC              |
| perform        | LGCI             |
| perform        | LTC              |
| perform        | RCC              |
| perform        | RCCI             |
| perform        | SMS              |
| perform        | SMU              |
| perform        | TMS              |
| pes            | PM               |
| pfquery        | PERFORM          |
| plane          | FP               |
| pmact          | PERFORM          |
| pmc            | CM               |
| pmloader       | PM               |
| pmloop         | C7BERT           |
| pmreset        | DTC              |
| pmreset        | DTCI             |

**Table B-2 Command/MAP level cross-reference table (Sheet 40 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| pmreset        | FP               |
| pmreset        | LGC              |
| pmreset        | LGCI             |
| pmreset        | LIM              |
| pmreset        | LTC              |
| pmreset        | MSB6             |
| pmreset        | MSB7             |
| pmreset        | NIU              |
| pmreset        | RCC              |
| pmreset        | RCCI             |
| pmreset        | SMS              |
| pmreset        | SMU              |
| pmreset        | TMS              |
| pms            | INTEG            |
| pms            | NETINTEG         |
| port           | Card (MS)        |
| port           | MC               |
| port           | IOC              |
| port           | ALT              |
| port           | ALTBAL           |
| post           | ALTCKTTST        |
| post           | ALTDIAG          |
| post           | ALTLIT           |
| post           | ALTSDIAG         |
| post           | APUX             |
| post           | BERT             |

Table B-2 Command/MAP level cross-reference table (Sheet 41 of 81)

| Command | MAP level     |
|---------|---------------|
| post    | CARRIER       |
| post    | C6TTP         |
| post    | C7LKSET       |
| post    | C7MSUVER      |
| post    | C7RteSet      |
| post    | C7TTP         |
| post    | DATA          |
| post    | DCH           |
| post    | DCTLTP        |
| post    | DCTTTP        |
| post    | DEVICES (CFI) |
| post    | DEVICES (LMX) |
| post    | DEVICES (PSP) |
| post    | DISPLAY       |
| post    | DPNSS         |
| post    | DRAM          |
| post    | DTC           |
| post    | DTCI          |
| post    | EIU           |
| post    | ELIU          |
| post    | ESA           |
| post    | ESTU          |
| post    | FMT           |
| post    | FRIU          |
| post    | ICRM          |
| post    | IDT           |

**Table B-2 Command/MAP level cross-reference table (Sheet 42 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| post           | ILD              |
| post           | IPML             |
| post           | ISG              |
| post           | LCM              |
| post           | LCME             |
| post           | LCMI             |
| post           | LCOM             |
| post           | LGC              |
| post           | LGCI             |
| post           | LIM              |
| post           | LINKSET          |
| post           | LIU7             |
| post           | LTC              |
| post           | LTPDATA          |
| post           | LTPISDN          |
| post           | LTPLTA           |
| post           | LTPMAN           |
| post           | MANUAL           |
| post           | MONITOR          |
| post           | MP               |
| post           | MSB6             |
| post           | MSB7             |
| post           | MTM              |
| post           | NETINTEG         |
| post           | NETPATH          |
| post           | NIU              |

**Table B-2 Command/MAP level cross-reference table (Sheet 43 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| post           | NOP              |
| post           | OAU              |
| post           | OPMPES           |
| post           | PM               |
| post           | POST             |
| post           | PRADCH           |
| post           | PVC              |
| post           | RBS              |
| post           | RCC              |
| post           | RCCI             |
| post           | SCCPLOC          |
| post           | SCCPRPC          |
| post           | SCCPRSS          |
| post           | SCP              |
| post           | SMS              |
| post           | SMU              |
| post           | SPM              |
| post           | SRUPES           |
| post           | STC              |
| post           | TMS              |
| post           | TPC              |
| post           | TRKCONV          |
| post           | TstEquip         |
| post           | TTP              |
| post           | XLIU             |
| post           | X75TTP           |

**Table B-2 Command/MAP level cross-reference table (Sheet 44 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| postdev        | DEVICES (FP)     |
| postdev        | POSTDEV          |
| post(isdn)     | LTP              |
| postisg        | ISGACT           |
| postisp        | ISP              |
| potsdiag       | LTP              |
| pps            | IDT              |
| prefix         | LTP              |
| prev           | DPNSS            |
| prevdm         | IBNCON           |
| prevpage       | SBSSTAT          |
| prevpage       | SBSSTRM          |
| print          | SA               |
| print          | SAEdit           |
| process        | BERP             |
| progress       | IDT              |
| protsw         | CARRIER          |
| protsw         | POST             |
| prtalm         | STAT TKGRP       |
| prtalm         | STAT TRKS        |
| prvpage        | NOP              |
| pside          | MS               |
| pvc            | SEAS             |
| qbnd           | LAYER            |
| qconline       | IBNCON           |
| qconv          | MPC              |



Table B-2 Command/MAP level cross-reference table (Sheet 45 of 81)

| Command  | MAP level |
|----------|-----------|
| qcustgrp | IBNCON    |
| qiom     | IOC       |
| qipml    | IPML      |
| qlayer   | LAYER     |
| qlayer2  | LTPDATA   |
| qlink    | MPC       |
| qloop    | LTPISDN   |
| ql1perf  | LTPDATA   |
| qmpc     | MPC       |
| qmospw   | SASelect  |
| qmtrblk  | MTRSYS    |
| qnode    | DLC       |
| qnode    | MPC       |
| qrydev   | POSTDEV   |
| qryfepc  | C7LKSET   |
| qrysig   | C6TTP     |
| qrysig   | C7TTP     |
| qsbsylk  | MPC       |
| qseated  | IBNCON    |
| qsup     | LNSTRBL   |
| qsup     | TRKSTRBL  |
| qtst     | NET       |
| qtst     | NETXPTS   |
| query    | C7BERT    |
| query    | DIRP      |
| query    | FBUS      |

**Table B-2 Command/MAP level cross-reference table (Sheet 46 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| query          | IOC              |
| query          | NOP              |
| query          | XFER             |
| queryalm       | CCS              |
| querycd        | Card (MS)        |
| querycd        | Chain            |
| querycd        | Clock (MS)       |
| querycd        | Shelf            |
| queryclk       | Clock (MC)       |
| queryclk       | CM               |
| querych        | ILD              |
| querych        | ISG              |
| querycm        | Clock (MC)       |
| querycm        | CM               |
| querycon       | SCCPLOC          |
| querydpp       | DPP              |
| querydv        | DEVICES (CFI)    |
| querydv        | DEVICES (LMX)    |
| querydv        | DEVICES (PSP)    |
| queryen        | CARD (ENET)      |
| queryen        | ENET             |
| queryen        | MATRIX           |
| queryen        | SHELF            |
| queryen        | SYSTEM           |
| queryflg       | CM               |
| queryflt       | C7LKSET          |

**Table B-2 Command/MAP level cross-reference table (Sheet 47 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| queryflt       | PVC              |
| queryflt       | SEAS             |
| queryfmt       | FMT              |
| queryfp        | DEVICES (FP)     |
| queryir        | IRLINK           |
| queryisg       | ISGACT           |
| querylap       | DPNSS            |
| querylk        | LCOM             |
| querylnk       | DPNSS            |
| querymcr       | PLANE            |
| querymem       | CM               |
| querymp        | MP               |
| queryms        | Card (MS)        |
| queryms        | Chain            |
| queryms        | Clock (MS)       |
| queryms        | MS               |
| queryms        | Shelf            |
| querypc        | C7RteSet         |
| querypes       | OPMPES           |
| querypes       | SRUPES           |
| querypl        | PLANE            |
| querypm        | APUX             |
| querypm        | DCH              |
| querypm        | DRAM             |
| querypm        | DTC              |
| querypm        | DTCI             |

**Table B-2 Command/MAP level cross-reference table (Sheet 48 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| querypm        | EIU              |
| querypm        | ELIU             |
| querypm        | ESA              |
| querypm        | EXND             |
| querypm        | FP               |
| querypm        | FRIU             |
| querypm        | ICRM             |
| querypm        | IDT              |
| querypm        | ILD              |
| querypm        | LCM              |
| querypm        | LCME             |
| querypm        | LCMI             |
| querypm        | LCOM             |
| querypm        | LGC              |
| querypm        | LGCI             |
| querypm        | LIM              |
| querypm        | LIU7             |
| querypm        | LTC              |
| querypm        | MSB6             |
| querypm        | MSB7             |
| querypm        | MTM              |
| querypm        | NIU              |
| querypm        | OAU              |
| querypm        | RBS              |
| querypm        | RCC              |
| querypm        | RCCI             |

Table B-2 Command/MAP level cross-reference table (Sheet 49 of 81)

| Command   | MAP level      |
|-----------|----------------|
| querypm   | SMS            |
| querypm   | SMU            |
| querypm   | SPM            |
| querypm   | TMS            |
| querypm   | TPC            |
| querypm   | XLIU           |
| queryproc | CONS           |
| queryproc | IOC            |
| queryproc | MTD            |
| queryrex  | ENET           |
| quersdm   | PLATFORM (SDM) |
| quersrv   | SCP            |
| queryss   | SCCPLOC        |
| queryss   | SCCPRPC        |
| queryss   | SCCPRSS        |
| querystc  | STC            |
| querytape | MTD            |
| querytrf  | C7LKSET        |
| querytty  | CONS           |
| queryusr  | C7LKSET        |
| queryusr  | DPNSS          |
| quit      | ACTIVITY       |
| quit      | ALT            |
| quit      | ALTBAL         |
| quit      | ALTCKTTST      |
| quit      | ALTDIAG        |

**Table B-2 Command/MAP level cross-reference table (Sheet 50 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| quit           | ALTLIT           |
| quit           | ALTSDIAG         |
| quit           | APUX             |
| quit           | ATT              |
| quit           | AutoCtrl         |
| quit           | BERP             |
| quit           | BERT             |
| quit           | CARD (ENET)      |
| quit           | Card (MS)        |
| quit           | CARRIER          |
| quit           | CCIS6            |
| quit           | CCS              |
| quit           | CCS7             |
| quit           | Chain            |
| quit           | Clock (MC)       |
| quit           | Clock (MS)       |
| quit           | CM               |
| quit           | CMMnt            |
| quit           | CodeCtrl         |
| quit           | CONS             |
| quit           | CPSTATUS         |
| quit           | C6TTP            |
| quit           | C7BERT           |
| quit           | C7LKSET          |
| quit           | C7MSUVER         |
| quit           | C7RteSet         |

Table B-2 Command/MAP level cross-reference table (Sheet 51 of 81)

| Command | MAP level     |
|---------|---------------|
| quit    | C7TTP         |
| quit    | DATA          |
| quit    | DCAP          |
| quit    | DCH           |
| quit    | DCTLTP        |
| quit    | DCTTTP        |
| quit    | DDU           |
| quit    | DELAYS (LGC)  |
| quit    | DELAYS (RCC)  |
| quit    | DEVICES (CFI) |
| quit    | DEVICES (FP)  |
| quit    | DEVICES (LMX) |
| quit    | DEVICES (NIU) |
| quit    | DEVICES (PSP) |
| quit    | DIRP          |
| quit    | DISPLAY       |
| quit    | DLC           |
| quit    | DPNSS         |
| quit    | DRAM          |
| quit    | DRM           |
| quit    | DTC           |
| quit    | DTCI          |
| quit    | EIU           |
| quit    | ELIU          |
| quit    | ENET          |
| quit    | ESA           |

**Table B-2 Command/MAP level cross-reference table (Sheet 52 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| quit           | ESTU             |
| quit           | EXND             |
| quit           | Ext              |
| quit           | FBUS             |
| quit           | FMT              |
| quit           | FP               |
| quit           | FRIU             |
| quit           | GrpCtrl          |
| quit           | IBNCON           |
| quit           | ICRM             |
| quit           | IDT              |
| quit           | ILD              |
| quit           | IntCCtrl         |
| quit           | INTEG            |
| quit           | IOC              |
| quit           | IOD              |
| quit           | IPML             |
| quit           | IRLINK           |
| quit           | ISG              |
| quit           | ISGACT           |
| quit           | ISP              |
| quit           | LAYER            |
| quit           | LCM              |
| quit           | LCME             |
| quit           | LCMI             |
| quit           | LCOM             |



**Table B-2 Command/MAP level cross-reference table (Sheet 53 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| quit           | LGC              |
| quit           | LGCI             |
| quit           | LIM              |
| quit           | LINKSET          |
| quit           | LIU7             |
| quit           | LNS              |
| quit           | LNSTRBL          |
| quit           | LTC              |
| quit           | LTP              |
| quit           | LTPDATA          |
| quit           | LTPISDN          |
| quit           | LTPLTA           |
| quit           | LTPMAN           |
| quit           | MANUAL           |
| quit           | MATRIX           |
| quit           | MC               |
| quit           | Memory           |
| quit           | MONITOR          |
| quit           | MP               |
| quit           | MPC              |
| quit           | MS               |
| quit           | MSB6             |
| quit           | MSB7             |
| quit           | MTD              |
| quit           | MTM              |
| quit           | NET              |

**Table B-2 Command/MAP level cross-reference table (Sheet 54 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| quit           | NETINTEG         |
| quit           | NETJCTRS         |
| quit           | NETLINKS         |
| quit           | NETPATH          |
| quit           | NETXPTS          |
| quit           | NIU              |
| quit           | NOP              |
| quit           | NWM              |
| quit           | OAU              |
| quit           | PERFORM          |
| quit           | PLANE            |
| quit           | PLATFORM (SDM)   |
| quit           | PM               |
| quit           | PMACT            |
| quit           | PMC              |
| quit           | Port             |
| quit           | POST             |
| quit           | POSTDEV          |
| quit           | PRADCH           |
| quit           | PVC              |
| quit           | RBS              |
| quit           | RCC              |
| quit           | RCCI             |
| quit           | RteCtrl          |
| quit           | SASelect         |
| quit           | SBS              |

**Table B-2 Command/MAP level cross-reference table (Sheet 55 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| quit           | SBSCOMM          |
| quit           | SBSSEL           |
| quit           | SBSSTAT          |
| quit           | SBSSTRM          |
| quit           | SCCPLOC          |
| quit           | SCCPRPC          |
| quit           | SCCPRSS          |
| quit           | SCP              |
| quit           | SDM              |
| quit           | SEAS             |
| quit           | SHELF            |
| quit           | Shelf            |
| quit           | SLM              |
| quit           | SMS              |
| quit           | SMU              |
| quit           | SPM              |
| quit           | SRUPES           |
| quit           | STAT TKGRP       |
| quit           | STAT TRKS        |
| quit           | STC              |
| quit           | SYSTEM           |
| quit           | TMS              |
| quit           | TPC              |
| quit           | TRKCONV          |
| quit           | TRKS             |
| quit           | TRKSTRBL         |

**Table B-2 Command/MAP level cross-reference table (Sheet 56 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| quit           | TstEquip         |
| quit           | TTP              |
| quit           | XFER             |
| quit           | XLIU             |
| quit           | X75TTP           |
| rab            | LAYER            |
| rcama          | SASelect         |
| rccli          | TRKCONV          |
| rdbuff         | NET              |
| readfw         | SLM              |
| recann         | SA               |
| record_dtsr    | LTP              |
| recover        | DTC              |
| recover        | LGC              |
| recover        | LGCI             |
| recover        | LTC              |
| recover        | NET              |
| recover        | PM               |
| recover        | RCC              |
| recover        | RCCI             |
| recover        | SMS              |
| recover        | SMU              |
| reinit         | TRKTP            |
| release        | DCTLTP           |
| release        | DCTTTP           |
| release        | IBNCON           |

**Table B-2 Command/MAP level cross-reference table (Sheet 57 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| release        | NOP              |
| remove         | ALTBAL           |
| remove         | ALTCKTTST        |
| remove         | ALTDIAG          |
| remove         | ALTLIT           |
| remove         | ALTSDIAG         |
| remove         | AutoCtrl         |
| remove         | CodeCtrl         |
| remove         | GrpCtrl          |
| remove         | IntCCtrl         |
| remove         | RteCtrl          |
| rename         | DRM              |
| report         | C7BERT           |
| report         | DPP              |
| res            | LTPLTA           |
| reset          | BERP             |
| reset          | DRM              |
| reset          | IOC              |
| reset          | LineSel          |
| reset          | NETPATH          |
| resetio        | DPP              |
| restore        | MTRSYS           |
| resume         | LNSTRBL          |
| resume         | TRKSTRBL         |
| reth           | NETINTEG         |
| review         | BERP             |

**Table B-2 Command/MAP level cross-reference table (Sheet 58 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| revive         | DIRP             |
| revive         | MPC              |
| revive         | XFER             |
| rex            | LIM              |
| rextst         | CARD (ENET)      |
| rextst         | Clock (MC)       |
| rextst         | CMMnt            |
| rextst         | ENET             |
| rextst         | MATRIX           |
| rextst         | MATRIX           |
| rextst         | MC               |
| rextst         | Memory           |
| rextst         | PMC              |
| rextst         | Port             |
| rextst         | SHELF            |
| rextst         | SYSTEM           |
| ring           | LTPLTA           |
| ring           | SA               |
| rlayer2        | LTPDATA          |
| rls            | C6TTP            |
| rls            | C7TTP            |
| rls            | DATA             |
| rls            | MANUAL           |
| rls            | MONITOR          |
| rls            | TTP              |
| rls            | X75TTP           |

Table B-2 Command/MAP level cross-reference table (Sheet 59 of 81)

| Command  | MAP level   |
|----------|-------------|
| rlsconn  | LTPMAN      |
| rl1perf  | LTPDATA     |
| rotate   | DIRP        |
| rotate   | DRM         |
| rotate   | Memory      |
| route    | Clock (MC)  |
| route    | MC          |
| route    | Port        |
| routeadm | SBSSTAT     |
| routeset | C7TTP       |
| rpb      | LAYER       |
| rserr    | DPP         |
| rsetvol  | DIRP        |
| rsti     | NETINTEG    |
| rtctrl   | NWM         |
| rts      | APUX        |
| rts      | CARD (ENET) |
| rts      | Card (MS)   |
| rts      | Chain       |
| rts      | Clock (MC)  |
| rts      | CONS        |
| rts      | C6TTP       |
| rts      | C7LKSET     |
| rts      | C7TTP       |
| rts      | DCH         |
| rts      | DDU         |

**Table B-2 Command/MAP level cross-reference table (Sheet 60 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| rts            | DEVICES (CFI)    |
| rts            | DEVICES (FP)     |
| rts            | DEVICES (LMX)    |
| rts            | DEVICES (PSP)    |
| rts            | DLC              |
| rts            | DPNSS            |
| rts            | DRAM             |
| rts            | DTC              |
| rts            | DTCI             |
| rts            | EIU              |
| rts            | ELIU             |
| rts            | ESA              |
| rts            | ESTU             |
| rts            | EXND             |
| rts            | FBUS             |
| rts            | FP               |
| rts            | FRIU             |
| rts            | IBNCON           |
| rts            | ICRM             |
| rts            | IDT              |
| rts            | ILD              |
| rts            | IOC              |
| rts            | IPML             |
| rts            | IRLINK           |
| rts            | ISG              |
| rts            | LAYER            |



**Table B-2 Command/MAP level cross-reference table (Sheet 61 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| rts            | LCM              |
| rts            | LCME             |
| rts            | LCMI             |
| rts            | LCOM             |
| rts            | LGC              |
| rts            | LGCI             |
| rts            | LIM              |
| rts            | LINKSET          |
| rts            | LIU7             |
| rts            | LTC              |
| rts            | LTP              |
| rts            | LTP              |
| rts            | MANUAL           |
| rts            | MATRIX           |
| rts            | MC               |
| rts            | MONITOR          |
| rts            | MP               |
| rts            | MPC              |
| rts            | MS               |
| rts            | MSB6             |
| rts            | MSB7             |
| rts            | MTD              |
| rts            | MTM              |
| rts            | NET              |
| rts            | NETJCTRS         |
| rts            | NETLINKS         |

**Table B-2 Command/MAP level cross-reference table (Sheet 62 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| rts            | NETXPTS          |
| rts            | NIU              |
| rts            | OAU              |
| rts            | OPMPES           |
| rts            | PLANE            |
| rts            | PLATFORM (SDM)   |
| rts            | PMC              |
| rts            | POST             |
| rts            | POSTDEV          |
| rts            | PRADCH           |
| rts            | PVC              |
| rts            | RBS              |
| rts            | RCC              |
| rts            | RCCI             |
| rts            | SCCPLOC          |
| rts            | SCCPRPC          |
| rts            | SCCPRSS          |
| rts            | SDM              |
| rts            | SEAS             |
| rts            | Shelf            |
| rts            | SHELF            |
| rts            | SLM              |
| rts            | SMS              |
| rts            | SMU              |
| rts            | SPM              |
| rts            | SRUPES           |

**Table B-2 Command/MAP level cross-reference table (Sheet 63 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| rts            | STC              |
| rts            | SYSTEM           |
| rts            | TMS              |
| rts            | TPC              |
| rts            | TRKCONV          |
| rts            | TTP              |
| rts            | XLIU             |
| rts            | X75TTP           |
| rtschn         | Shelf            |
| rtslnks        | NIU              |
| rtsms          | MS               |
| runatt         | ATT              |
| saedit         | SA               |
| saselect       | AOSSsel          |
| saselect       | LineSel          |
| saselect       | SA               |
| saselect       | SAEdit           |
| save           | C7MSUVER         |
| sbs            | SBSCOMM          |
| sbs            | SBSSEL           |
| sbs            | SBSSTAT          |
| sbs            | SBSSTRM          |
| sbsstat        | SBSSEL           |
| scanms         | MS               |
| scanms         | Shelf            |
| sccploc        | CCS7             |

**Table B-2 Command/MAP level cross-reference table (Sheet 64 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| sccprpc        | CCS7             |
| sccprss        | SCCPRPC          |
| schedmap       | CPSTATUS         |
| scp            | CCS              |
| scploc         | SCP              |
| screen         | C7MSUVER         |
| scur           | LTPISDN          |
| sdiag          | ALT              |
| seas           | CCS7             |
| seize          | C6TTP            |
| seize          | C7TTP            |
| seize          | DATA             |
| seize          | IBNCON           |
| seize          | TTP              |
| seize          | X75TTP           |
| select         | BERP             |
| select         | DCTLTP           |
| select         | DCTTTP           |
| select         | GrpCtrl          |
| select         | IBNCON           |
| selgrp         | STAT TKGRP       |
| selgrp         | STAT TRKS        |
| sendmsg        | IBNCON           |
| sent           | XFER             |
| set            | NETPATH          |
| setaction      | POST             |

Table B-2 Command/MAP level cross-reference table (Sheet 65 of 81)

| Command | MAP level  |
|---------|------------|
| setafpc | C7MSUVER   |
| setbkup | SBS        |
| setcdpa | C7MSUVER   |
| setcgpa | C7MSUVER   |
| setdest | C7MSUVER   |
| setdpc  | C7MSUVER   |
| seth0h1 | C7MSUVER   |
| setintg | INTEG      |
| setlog  | NETINTEG   |
| setlpbk | LTPMAN     |
| setopc  | C7MSUVER   |
| setsc   | Ext        |
| setscmg | C7MSUVER   |
| setsd   | Ext        |
| setsio  | C7MSUVER   |
| setstop | C7BERT     |
| setstst | ATT        |
| sgnl    | MANUAL     |
| sgnl    | TTP        |
| shelf   | Card (MS)  |
| shelf   | Chain      |
| shelf   | Clock (MS) |
| shelf   | ENET       |
| shelf   | MATRIX     |
| shelf   | MS         |
| shelf   | Shelf      |

**Table B-2 Command/MAP level cross-reference table (Sheet 66 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| shelf          | SYSTEM           |
| showbackup     | MS               |
| showblock      | ENET             |
| showchn        | Shelf            |
| slm            | IOD              |
| snid           | C6TTP            |
| sortcoll       | SBSSTAT          |
| sortfsa        | SBSSTAT          |
| sortkey        | BERP             |
| sortstrm       | SBSSTAT          |
| spare          | Memory           |
| sparing        | DCH              |
| specsigs       | SA               |
| spin           | SLM              |
| split          | PMC              |
| start          | ACTIVITY         |
| start          | ALTBAL           |
| start          | ALTCKTTST        |
| start          | ALTDIAG          |
| start          | ATLIT            |
| start          | ALTSDIAG         |
| start          | ATT              |
| start          | BERP             |
| start          | BERT             |
| start          | C7BERT           |
| start          | DDU              |

Table B-2 Command/MAP level cross-reference table (Sheet 67 of 81)

| Command  | MAP level |
|----------|-----------|
| start    | NETPATH   |
| startchg | SA        |
| startopr | SA        |
| stat     | TRKS      |
| stat     | TRKSTRBL  |
| status   | ALTBAL    |
| status   | ALTCKTTST |
| status   | ALTDIAG   |
| status   | ATLIT     |
| status   | ALTSDIAG  |
| status   | DDU       |
| status   | IOC       |
| status   | PM        |
| stc      | MSB6      |
| stc      | MSB7      |
| stcload  | MSB6      |
| stcload  | MSB7      |
| stksdr   | TTP       |
| stop     | ALTBAL    |
| stop     | ALTCKTTST |
| stop     | ALTDIAG   |
| stop     | ATLIT     |
| stop     | ALTSDIAG  |
| stop     | ATT       |
| stop     | BERP      |
| stop     | BERT      |

**Table B-2 Command/MAP level cross-reference table (Sheet 68 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| stop           | C7BERT           |
| stop           | DCTLTP           |
| stop           | DCTTTP           |
| stop           | DDU              |
| stop           | DELAYS (LGC)     |
| stop           | DELAYS (RCC)     |
| stop           | ISGACT           |
| stop           | ISP              |
| stop           | NETPATH          |
| stop           | PMACT            |
| stopdisp       | LNSTRBL          |
| stopdisp       | TRKSTRBL         |
| stoplog        | ACTIVITY         |
| stoplog        | DELAYS (LGC)     |
| stoplog        | DELAYS (RCC)     |
| stoplog        | ISGACT           |
| stoplog        | ISP              |
| stoplog        | PMACT            |
| strmstat       | SBSSEL           |
| strt           | DELAYS (LGC)     |
| strt           | DELAYS (RCC)     |
| strt           | ISGACT           |
| strt           | ISP              |
| strt           | PMACT            |
| strtlog        | ACTIVITY         |
| strtlog        | DELAYS (LGC)     |



**Table B-2 Command/MAP level cross-reference table (Sheet 69 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| strtlog        | DELAYS (RCC)     |
| strtlog        | ISGACT           |
| strtlog        | ISP              |
| strtlog        | PMACT            |
| submit         | ALTBAL           |
| submit         | ALTCKTTST        |
| submit         | ALTDIAG          |
| submit         | ATLIT            |
| submit         | ALTSDIAG         |
| summary        | BERP             |
| suppress       | LNSTRBL          |
| suppress       | TRKSTRBL         |
| sustate        | LTPDATA          |
| sustate        | LTPISDN          |
| sustate        | LTPMAN           |
| sustate (isdn) | LTPDATA          |
| swact          | Clock (MC)       |
| swact          | CM               |
| swact          | CMMnt            |
| swact          | DEVICES (CFI)    |
| swact          | DEVICES (LMX)    |
| swact          | DEVICES (PSP)    |
| swact          | DTCI             |
| swact          | ICRM             |
| swact          | LGC              |
| swact          | LGCI             |

**Table B-2 Command/MAP level cross-reference table (Sheet 70 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| swact          | LTC              |
| swact          | MC               |
| swact          | Memory           |
| swact          | MSB6             |
| swact          | MSB7             |
| swact          | NIU              |
| swact          | PLANE            |
| swact          | PMC              |
| swact          | Port             |
| swact          | DTC              |
| swact          | PRADCH           |
| swact          | RCC              |
| swact          | RCCI             |
| swact          | SMS              |
| swact          | SMU              |
| swact          | TMS              |
| swaphw         | CM               |
| swbnk          | ILD              |
| swcarr         | Clock (MS)       |
| swen           | DEVICES (FP)     |
| swld           | LCM              |
| swmast         | Clock (MS)       |
| swmast         | MS               |
| swrg           | LCM              |
| swrg           | LCME             |
| swrg           | LCMI             |

**Table B-2 Command/MAP level cross-reference table (Sheet 71 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| swtch          | DCH              |
| sync           | Clock (MC)       |
| sync           | Clock (MS)       |
| sync           | CM               |
| sync           | CMMnt            |
| sync           | MC               |
| sync           | Memory           |
| sync           | PLANE            |
| sync           | PMC              |
| sync           | Port             |
| synclk         | Clock (MS)       |
| system         | CARD (ENET)      |
| system         | ENET             |
| system         | MATRIX           |
| system         | SHELF            |
| system         | SYSTEM           |
| talklta        | LTPLTA           |
| tariff         | MTRSYS           |
| tcopy          | DRM              |
| tdet           | MANUAL           |
| tdet           | TTP              |
| tei            | LTPISDN          |
| termchk        | LTPISDN          |
| test           | LTPISDN          |
| test           | DPP              |
| testbook       | DCTLTP           |

**Table B-2 Command/MAP level cross-reference table (Sheet 72 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| testbook       | DCTTTP           |
| testreq        | ATT              |
| testss         | SCCPLOC          |
| tgen           | MANUAL           |
| tgen           | TTP              |
| thr            | LTPISDN          |
| thresh         | INTEG            |
| threshold      | MTD              |
| time           | SA               |
| timer          | NETINTEG         |
| tnsmp          | SASelect         |
| tnt            | MTRSYS           |
| tonegen        | LTPMAN           |
| tonegen (isdn) | LTPMAN           |
| trans          | FMT              |
| trantst        | SCCPLOC          |
| trantst        | SCCPRPC          |
| trantst        | SCCPRSS          |
| trkqry         | C6TTP            |
| trkqry         | C7TTP            |
| trkstrbl       | TRKS             |
| trkstrbl       | STAT TKGRP       |
| trlnk          | NETINTEG         |
| trnsI          | Card (MS)        |
| trnsI          | CARD (ENET)      |
| trnsI          | Chain            |

Table B-2 Command/MAP level cross-reference table (Sheet 73 of 81)

| Command | MAP level     |
|---------|---------------|
| trnsI   | DCH           |
| trnsI   | DEVICES (CFI) |
| trnsI   | DEVICES (LMX) |
| trnsI   | DEVICES (NIU) |
| trnsI   | DEVICES (PSP) |
| trnsI   | DRAM          |
| trnsI   | DTC           |
| trnsI   | DTCI          |
| trnsI   | ESA           |
| trnsI   | FBUS          |
| trnsI   | ICRM          |
| trnsI   | IDT           |
| trnsI   | ILD           |
| trnsI   | IOC           |
| trnsI   | IOD           |
| trnsI   | IPML          |
| trnsI   | IRLINK        |
| trnsI   | LCM           |
| trnsI   | LCME          |
| trnsI   | LCMI          |
| trnsI   | LGC           |
| trnsI   | LGCI          |
| trnsI   | LIM           |
| trnsI   | LTC           |
| trnsI   | MATRIX        |
| trnsI   | MC            |

**Table B-2 Command/MAP level cross-reference table (Sheet 74 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| trnsI          | Memory (CM)      |
| trnsI          | MP               |
| trnsI          | MSB6             |
| trnsI          | MSB7             |
| trnsI          | MTM              |
| trnsI          | NET              |
| trnsI          | NETINTEG         |
| trnsI          | NETJCTRS         |
| trnsI          | NETLINKS         |
| trnsI          | OAU              |
| trnsI          | PLANE            |
| trnsI          | PLATFORM (SDM)   |
| trnsI          | PMC              |
| trnsI          | Port             |
| trnsI          | RBS              |
| trnsI          | RCC              |
| trnsI          | RCCI             |
| trnsI          | SDM              |
| trnsI          | Shelf            |
| trnsI          | SHELF            |
| trnsI          | SLM              |
| trnsI          | SMS              |
| trnsI          | SMU              |
| trnsI          | STC              |
| trnsI          | SYSTEM           |
| trnsI          | TMS              |

**Table B-2 Command/MAP level cross-reference table (Sheet 75 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| trnsI          | TPC              |
| try            | CARD (ENET)      |
| try            | MATRIX           |
| try            | SHELF            |
| try            | SYSTEM           |
| tst            | APUX             |
| tst            | Card (MS)        |
| tst            | CARD (ENET)      |
| tst            | Chain            |
| tst            | Clock (MC)       |
| tst            | Clock (MS)       |
| tst            | CM               |
| tst            | CONS             |
| tst            | C6TTP            |
| tst            | C7LKSET          |
| tst            | C7TTP            |
| tst            | DCH              |
| tst            | DDU              |
| tst            | DEVICES (CFI)    |
| tst            | DEVICES (FP)     |
| tst            | DEVICES (LMX)    |
| tst            | DEVICES (PSP)    |
| tst            | DLC              |
| tst            | DRAM             |
| tst            | DTC              |
| tst            | DTCI             |

**Table B-2 Command/MAP level cross-reference table (Sheet 76 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| tst            | EIU              |
| tst            | ELIU             |
| tst            | ESA              |
| tst            | ESTU             |
| tst            | EXND             |
| tst            | FBUS             |
| tst            | FP               |
| tst            | FRIU             |
| tst            | ICRM             |
| tst            | ILD              |
| tst            | IOC              |
| tst            | IPML             |
| tst            | IRLINK           |
| tst            | LCM              |
| tst            | LCME             |
| tst            | LCMI             |
| tst            | LCOM             |
| tst            | LGC              |
| tst            | LGCI             |
| tst            | LIM              |
| tst            | LINKSET          |
| tst            | LIU7             |
| tst            | LTC              |
| tst            | MANUAL           |
| tst            | MATRIX           |
| tst            | MC               |



**Table B-2 Command/MAP level cross-reference table (Sheet 77 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| tst            | Memory           |
| tst            | MONITOR          |
| tst            | MP               |
| tst            | MPC              |
| tst            | MS               |
| tst            | MSB6             |
| tst            | MSB7             |
| tst            | MTD              |
| tst            | MTM              |
| tst            | NET              |
| tst            | NETJCTRS         |
| tst            | NETLINKS         |
| tst            | NETXPTS          |
| tst            | NIU              |
| tst            | OAU              |
| tst            | OPMPES           |
| tst            | PLANE            |
| tst            | PMC              |
| tst            | Port             |
| tst            | POST             |
| tst            | POSTDEV          |
| tst            | PVC              |
| tst            | RBS              |
| tst            | RCC              |
| tst            | RCCI             |
| tst            | Shelf            |

**Table B-2 Command/MAP level cross-reference table (Sheet 78 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| tst            | SHELF            |
| tst            | SLM              |
| tst            | SMS              |
| tst            | SMU              |
| tst            | SPM              |
| tst            | SRUPES           |
| tst            | STC              |
| tst            | SYSTEM           |
| tst            | TMS              |
| tst            | TPC              |
| tst            | TTP              |
| tst            | XLIU             |
| tst            | X75TTP           |
| tst audit      | TRKTP            |
| tstchn         | Shelf            |
| tstdsalm       | Ext              |
| tstdtmf        | LTPMAN           |
| tstms          | MS               |
| tstring        | LTPMAN           |
| tstsgnl        | LTPISDN          |
| tsttrnsI       | C6TTP            |
| ttp            | TRKS             |
| uinh           | C7LKSET          |
| undo           | TRKCONV          |
| unswaphw       | CM               |
| updac          | Clock (MS)       |

Table B-2 Command/MAP level cross-reference table (Sheet 79 of 81)

| Command      | MAP level |
|--------------|-----------|
| upgrade      | ETS       |
| upth         | NETINTEG  |
| vac          | LTPLTA    |
| vdc          | LTPLTA    |
| verpath      | NETPATH   |
| view         | DRM       |
| voice        | SA        |
| voice_screen | LTP       |
| wait         | FP        |
| wait         | LIM       |
| waitfmsg     | IBNCON    |
| warmswact    | DTC       |
| warmswact    | DTCI      |
| warmswact    | ICRM      |
| warmswact    | LGC       |
| warmswact    | LGCI      |
| warmswact    | LTC       |
| warmswact    | MSB6      |
| warmswact    | MSB7      |
| warmswact    | RCC       |
| warmswact    | RCCI      |
| warmswact    | SMS       |
| warmswact    | SMU       |
| warmswact    | TMS       |
| xbert        | MSB6      |
| xbert        | MSB7      |

**Table B-2 Command/MAP level cross-reference table (Sheet 80 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| xfer           | IOD              |
| xmit           | XFER             |
| xpmlogs        | DTC              |
| xpmlogs        | DTCI             |
| xpmlogs        | LGC              |
| xpmlogs        | LGCI             |
| xpmlogs        | LTC              |
| xpmlogs        | MSB6             |
| xpmlogs        | MSB7             |
| xpmlogs        | RCC              |
| xpmlogs        | RCCI             |
| xpmlogs        | SMS              |
| xpmlogs        | SMU              |
| xpmlogs        | TMS              |
| xpmreload      | DTC              |
| xpmreload      | LGC              |
| xpmreload      | LGCI             |
| xpmreload      | LTC              |
| xpmreload      | RCC              |
| xpmreload      | RCCI             |
| xpmreload      | SMS              |
| xpmreload      | SMU              |
| xpmreset       | DTC              |
| xpmreset       | LGC              |
| xpmreset       | LGCI             |
| xpmreset       | LTC              |

**Table B-2 Command/MAP level cross-reference table (Sheet 81 of 81)**

| <b>Command</b> | <b>MAP level</b> |
|----------------|------------------|
| xpmreset       | MSB6             |
| xpmreset       | MSB7             |
| xpmreset       | RCC              |
| xpmreset       | RCCI             |
| xpmreset       | SMS              |
| xpmreset       | SMU              |
| xpmstor        | DTC              |
| xpmstor        | DTCI             |
| xpmstor        | LGC              |
| xpmstor        | LGCI             |
| xpmstor        | LTC              |
| xpmstor        | RCC              |
| xpmstor        | SMS              |
| xpmstor        | SMSR             |
| xpmstor        | SMU              |
| xpmstor        | TMS              |
| xpts           | NET              |
| xpts           | NETXPTS          |
| zoom           | ENET             |
| zoom           | MATRIX           |

---

# List of terms

---

This chapter contains a list of terms used in this reference manual.

Other DMS-100 related terms are in the Glossary of Terms and Abbreviations, 297-1001-825.

## **BNR reduced instruction set computer (BRISC)**

An MC88100-based processor CPU card on the DMS-core.

## **CI**

See command interpreter.

## **command interpreter (CI)**

A component in the Support Operating System (SOS) that functions as the main interface between the machine and the user. The principal roles of the CI are:

- reading lines entered by a terminal user
- breaking each line into recognizable units
- analyzing the units
- recognizing command-item numbers on the input lines
- activating these commands

## **command target**

Defines the type of processor that the command applies to.

## **directory**

A level that contains non-menu commands.

## **MAP**

See maintenance and administration position (MAP).

## **MAPCI**

MAP command interpreter

**MAP level**

A level that contains menu commands

**maintenance and administration position**

A group of components that provides a user interface between operating company personnel and the DMS-100 Family switches. The interface consists of a video display unit (VDU) and keyboard, a voice communications module, test facilities, and special furniture.

**menu listed commands**

Commands that are accessible to the user in one or more MAP menus.

**menu unlisted commands**

Commands that are associated with a specific menu level, but are not visible to the user in a MAP menu.

**NT40**

A type of central control central processing unit (CPU).

**non-menu commands**

Commands that are not associated with MAP menus. These commands are directly accessible at the CI level or accessible through a directory at the CI level.

**parameter**

An element that modifies the command.

**SuperNode**

A type of central control CPU.

**variable**

An element that represents a value, range, number, or item.

---

## **Additional commands NA017**

---

The commands on the following pages were added to this document in the NA017 release. These commands are NOT LISTED in the table of contents.





**APPLY****Type**

The apply command is a menu listed command.

**Target**

The command target for the apply command is ALL.

**Description**

Use the apply command to specify a control to be applied to a trunk group.

**Limitations and restrictions**

The following limits and restrictions apply to the apply command:

- The select command must always be used before the apply command because controls cannot be applied until a trunk group has been selected.
- The following list shows the precedence of group controls from highest precedence to lowest:
  - FRR-immediate reroute (IRR)
  - DRE
  - PRE
  - CANT
  - SKIP
  - STR
  - hunt for idle trunk
  - FRR-regular reroute (RRR)
  - CANF
- TASI is not relevant for the apply command since TASI is automatically active. Manual deactivation of TASI is effective for as long as the time intervals specified in field TASINVTL of Table OFCVAR. The range for TASINVTL is 1-60 min.
- The percent sign (%) is not entered for any NWM commands.

**Syntax**

The apply command syntax is as follows:

```

apply cant <dr_pct> <ar_pct> <htr_dr_pct> <htr_ar_pct> <ann>
 canf <dr_pct> <ar_pct> <htr_dr_pct> <htr_ar_pct> <ann>

 skip <dr_pct> <ar_pct> <htr_dr_pct> <htr_ar_pct>

```

**APPLY** (continued)

```
frr <dr_pct> <ar_pct> <htr_dr_pct> <htr_ar_pct> . . .
 <no_csrcode>
```

The following table describes the parameters and variables of the apply command.

| Parameters and variables | Value            | Description                                                                                                                                                                                                    |
|--------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ann                      | ea1, ea2, or nca | This variable specifies the announcement to which blocked calls are connected, and is one of the following.<br>ea1 emergency announcement 1<br>• ea2 emergency announcement 2<br>• nca no circuit announcement |
| ar_pct                   | 0-100            | This variable specifies the percentage of easy-to-reach alternate-routed calls to be controlled.                                                                                                               |
| canf                     | N/A              | This parameter selects the cancel from controls, which cancel a percentage of calls that overflow or skip a selected trunk group (TG).                                                                         |
| cant                     | N/A              | This parameter selects the cancel to controls, which cancel a percentage of calls to a selected terminating switch.                                                                                            |
| dr_pct                   | 0-100            | This variable specifies the percentage of easy-to-reach direct-routed traffic to be controlled.                                                                                                                |
| frr                      | N/A              | This parameter selects the flexible reroute control, which can specify an alternate route for the traffic to a terminating switch.                                                                             |
| htr                      | N/A              | This parameter specifies that only calls identified as hard-to-reach are affected.                                                                                                                             |
| htr_ar                   | 0-100            | This variable specifies the percentage of hard-to-reach alternate-routed calls to be controlled.                                                                                                               |
| htr_dr                   | 0-100            | This variable specifies the percentage of hard-to-reach direct-routed calls to be controlled.                                                                                                                  |

**APPLY** (end)

| Parameters and variables | Value | Description                                                                                                               |
|--------------------------|-------|---------------------------------------------------------------------------------------------------------------------------|
| no_csrcode               | 0-7   |                                                                                                                           |
| skip                     | N/A   | This parameter selects the skip controls, which enables alternate routing of calls to the next TG in the routing pattern. |

## Example

The following table provides an example of the apply command.

### Command example

|                             |                                                                                                                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command:</b>             | <b>&gt; apply cant 31 10 20 20</b>                                                                                                                                                                                                               |
| <b>Description of task:</b> | Cancels 31% of the easy-to-reach direct-routed traffic, 10% of easy-to-reach alternate-routed traffic, 20% of the hard-to-reach direct-routed traffic, and 20% of the hard-to-reach alternate-routed traffic to the selected terminating switch. |
| <b>MAP response:</b>        | enter: (Ann)                                                                                                                                                                                                                                     |
| <b>Explanation:</b>         | Enter the announcement to which blocked calls are connected. Generally, ea2.                                                                                                                                                                     |

## Responses

There is no change to the apply command responses.

## Release history

### NA016

Feature 59028697 modifies the CANT, CANF, FRR, and SKIP parameters to provide an option to the network manager to apply different threshold percentages for Hard To Reach (HTR) traffic and Easy To Reach (ETR) traffic. The threshold percentage for HTR traffic applies to a call whose destination code is tagged as HTR. The threshold percentage for ETR traffic applies to a call that terminates on an ETR code. These enhanced trunk group controls are activated only when Software Optionality Control (SOC) OAM00012 is set to ON.

This document provides information related to the changes for feature 59028697. For further information about the apply command, see NTP 297-1001-821, *Menu Commands Historical Reference Manual*.

## LIST

---

### Type

The list command is a menu listed command.

### Target

The command target for the list command is ALL.

### Description

Use the list command to display a particular network management trunk group (TG) control on selected trunk groups or on all trunk groups.

### Limitations and restrictions

The list command has no limits or restrictions.

### Syntax

The list command syntax is as follows:

```
list <ctrl> all
 fsccli
```

**LIST** (continued)

The following table describes the parameters and variables of the list command.

| Parameters and variables | Value           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| all                      | N/A             | This default parameter includes all fscli (full or short CLI) specified by the control variable. The common language location identifier (CLI) is the code assigned to the trunk group in Table CLI.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ctrl                     | see Description | <p>This variable specifies the control displayed, which is one of the following:</p> <p>dre    directional reservation equipment</p> <ul style="list-style-type: none"> <li>• pre    protective reservation equipment</li> <li>• cant    cancel to</li> <li>• canf    cancel from</li> <li>• skip    skip</li> <li>• itb    incoming trunk busy</li> <li>• str    selective trunk reservation</li> <li>• frr    flexible reroute (FRR)</li> <li>• brc    bidirectional trunk group reservation</li> <li>• ito    international trunk override</li> <li>• tasi    time assignment speech interpolation</li> <li>• bsskip    bearer services skip</li> </ul> |
| fscli                    | N/A             | <p>This variable specifies trunk group route lists to which calls affected by FRR are sent. These are valid trunk groups from Table CLIMTCE. All, or at least one, trunk group name must be entered. Up to seven, separated by spaces, can be entered as follows:</p> <p><b>fscli1 fscli2 . . . fscli9</b></p> <p>If an fscli entry matches both a short and a full CLI, the short CLI name is selected.</p>                                                                                                                                                                                                                                               |

LIST (end)

Example

The following table provides an example of the list command.

Command example

|                      |                                                                                                                                                                                                                                                                                                                                |        |            |            |     |        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------------|-----|--------|
| Command:             | > list skip all                                                                                                                                                                                                                                                                                                                |        |            |            |     |        |
| Description of task: | List the trunk groups and active types for all CLLI of the skip control.                                                                                                                                                                                                                                                       |        |            |            |     |        |
| MAP response:        | Skip                                                                                                                                                                                                                                                                                                                           |        |            |            |     |        |
|                      | SCLLI                                                                                                                                                                                                                                                                                                                          | CLLI   | ETR_DR_Pct | ETR_AR_Pct |     |        |
|                      | ISUPT2                                                                                                                                                                                                                                                                                                                         | ISUPT2 | 10%        | 20%        |     |        |
|                      |                                                                                                                                                                                                                                                                                                                                |        | HTR_DR_Pct | HTR_AR_Pct | ANN | SOURCE |
|                      |                                                                                                                                                                                                                                                                                                                                |        | 30%        | 40%        |     | MANUAL |
| Explanation:         | For trunk group ISUPT2, 10% of easy-to-reach direct-routed traffic and 20% of easy-to-reach alternate-routed traffic is skipped. Additionally, 30% of hard-to-reach direct-routed traffic and 40% of hard-to-reach alternate-routed traffic is skipped. ANN is not an optional parameter for SKIP, so the field remains blank. |        |            |            |     |        |

Responses

There is no change to the list command responses.

Release history

NA016

Feature 59028697 modifies the CANT, CANF, FRR, and SKIP parameters to provide an option to the network manager to apply different threshold percentages for Hard To Reach (HTR) traffic and Easy To Reach (ETR) traffic. This feature also modifies the output of the list command to include the variables associated with the CANT, CANF, FRR, and SKIP parameters.

A code is tagged Hard To Reach (HTR) when the probability of call completion is extremely low. If the probability of the call completion is nearly 100%, a code is tagged Easy To Reach (ETR). The threshold percentage for HTR traffic applies to a call whose destination code is tagged as HTR. The threshold percentage for ETR traffic applies to a call that terminates on a ETR code. These enhanced truck group controls are activated only when Software Optionality Control (SOC) OAM00012 is set to ON.

This document provides information related to the changes for feature 59028697. For further information about the list command, see NTP 297-1001-821, *Menu Commands Historical Reference Manual*.

---

## SHOWSUPERGROUPOM

---

### Type

The SHOWSUPERGROUPOM command is a nonmenu command.

### Target

The command target for the SHOWSUPERGROUPOM command is OTHER.

### Description

The SHOWSUPERGROUPOM command interface tool displays OM TOTALS for the SuperTrunk Group defined in the SUPERTKG table. Each SuperTrunk Group tuple can be associated with a group of Trunks, (a maximum of 180 Trunks).

### Limitations and restrictions

The SHOWSUPERGROUPOM command has no limits or restrictions.

### Syntax

The SHOWSUPERGROUPOM command syntax is as follows:

```
showsupergroupom (Active, Holding) <from_group> <to_group>
```

The SHOWSUPERGROUPOM command displays the Super Trunk Group OM Totals for either the Active or Holding pegs within a range. The range may be unspecified, in which case the OM Totals for all Super Trunk Groups will be displayed. When only one group parameter (from\_group) is specified, the OM Totals for only that Super Trunk Group will be displayed.

The following table describes the parameters and variables of the SHOWSUPERGROUPOM command.

| Parameters and variables | Value                 | Description                                                 |
|--------------------------|-----------------------|-------------------------------------------------------------|
| (Active, Holding)        | 'Active' or 'Holding' | Specifies if the pegs to be displayed are Active or Holding |
| <from_group>             | SUPERGRP name         | First (or only) Super Trunk Group to be displayed           |
| <to_group>               | SUPERGRP name         | Last Super Trunk Group to be displayed                      |



## **SHOWSUPERGROUPOM** (continued)

---

### **Example**

This example shows displaying OM totals for a given range of Super Trunk Groups.

**SHOWSUPERGROUPOM** (continued)**showsupergroupom command example**

SHOWSUPERGROUPOM ACTIVE PRIHUNT3 PRIHUNT4

Display  
Action

Display the SUPERGRP OMs for the given RANGE,  
the CLLI's in Supergroup will NOT be displayed.

```

CLASS: ACTIVE
START:2001/02/22 10:00:00 THU; STOP: 2001/02/22 10:55:11 THU;
SLOWSAMPLES: 4; FASTSAMPLES: 31;
KEY (COMMON_LANGUAGE_NAME)
INFO (OM2TRKINFO)
 INCATOT PRERTEAB INFAIL NATTMPT
 NOVFLATB GLARE OUTFAIL DEFILDCA
 DREU PREU TRU SBU
 MBU OUTMTCHF CONNECT TANDEM
 AOF ANF TOTU ANSWER
 ACCCONG NOANSWER INANSWER OUTANSU
 INANSU

```

SUPERTKG OM Counts for PRIHUNT3

|   |   |     |     |
|---|---|-----|-----|
| 0 | 0 | 0   | 0   |
| 0 | 0 | 0   | 0   |
| 0 | 0 | 0   | 276 |
| 0 | 0 | 0   | 0   |
| 0 | 0 | 276 | 0   |
| 0 | 0 | 0   | 0   |
| 0 |   |     |     |

SUPERTKG OM Counts for PRIHUNT4

|   |   |     |     |
|---|---|-----|-----|
| 0 | 0 | 0   | 0   |
| 0 | 0 | 0   | 0   |
| 0 | 0 | 0   | 276 |
| 0 | 0 | 0   | 0   |
| 0 | 0 | 276 | 0   |
| 0 | 0 | 0   | 0   |
| 0 |   |     |     |

## **SHOWSUPERGROUPOM (end)**

---

### **Release history**

#### **NA017**

Feature 59030466 (Display Super Trunk Groups OM Totals) introduces the SHOWSUPERGROUPOM command.



DMS-100 Family  
**Command Interface**  
Reference Manual

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